Haier
HVAC Solutions

Residential and Light Commercial

Catalogue 2024/25



Haier

Haier BRAND STORY

Today, in the diverse and unconventional age of the Internet, "one size fits all" products and solutions are not enough to satisfy the customer. Customers want to be treated as autonomous individuals and respected for who they are.

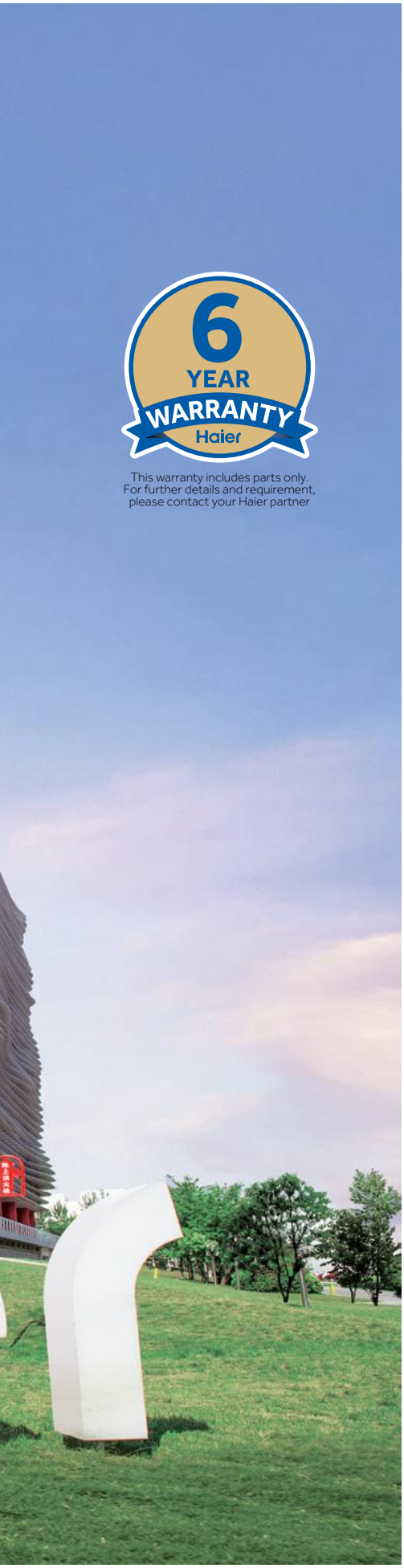
Everyone wants their unique lifestyle acknowledged. That is why we listen carefully to our customers in order to gain a genuine understanding of their lifestyle and requirements. Each of us deserves to live an extraordinary smart home experience, which can be simple, sophisticated, organised and enjoyable.

As a global leader, Haier, in addition to innovating its products and solutions, transforms its organisation into a connected platform. In doing so, internal and external resources are connected quickly and easily. We believe only by doing so, we can best meet our customers' expectations in this rapidly evolving world.

Join the Haier network. Create new possibilities.



The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.
The Inverter Air Conditioner Guarantee expires if a Class A differential magnetothermal circuit breaker is not installed.



This warranty includes parts only.
For further details and requirement,
please contact your Haier partner

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Haier GLOBAL POSITION

WORLD'S NO.1 MAJOR APPLIANCES BRAND

Haier has been accredited with global No.1 in major household appliances by retail sales from 2008-2023, according to data from Euromonitor.

WORLD'S NO.1 SMART AC BRAND

Haier has been world's No.1 connected air conditioner brand, by retail sales in 2023, according to data from Euromonitor.

"ESG" INTERNATIONAL AWARDS

2021 ESG award 2021 BDO Environmental, Social and Governance Reporting Awards.

FORTUNE'S MOST ADMIRED COMPANIES

Haier Smart Home was named one of Fortune's most admired companies in the world since 2019 and is the only appliance company from Asia to receive this award.

TOP 100 MOST VALUABLE BRANDS

Haier, the world's only IoT ecosystem brand on the list for four consecutive years.

TOP 100 GLOBAL CHALLENGERS

With the global landing of the Smart Home ecosystem brand, Haier Smart Home was once again listed on the Fortune Global 500.

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Haier GLOBAL NETWORK

Haier currently has 10+ R&D centres, 29 industrial parks, 122 manufacturing centres and 108 marketing centres around the world, reaching out to more than 200 countries and regions and serving 1 billion user households.

Haier has 7 major home appliance brands worldwide: Haier, Casarte, Leader, AQUA, Fisher & Paykel, GE Appliances and Candy.

Each of these brands offers the best user experience to various consumer groups in many regions and countries around the world.


GEA Factory


CANDY Factory


Russia Factory


Russia Second Phase


Thailand Factory

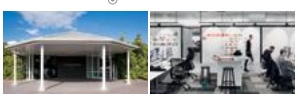



Nigeria Factory

Pakistan Economic Zone


Indonesia Factory


Pune(India) Industrial Park
Greater Noida(India) Industrial Park


FPA R&D Center


Vietnam Factory

10+N R&D Centers | **108** Marketing Centers | **29** Industrial Parks | **122** Factories | **200+** Countries or Regions

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Haier AC MILESTONES



1984

Foundation of the Haier Group in Qingdao, China.

1993

Launch of the first inverter air conditioner in China.

1994

Obtaining ISO 9001 certification. Haier starts exporting air conditioners to Europe.

1996

Launch of the full Light Commercial range in China.

1999

Starts exporting air conditioners to the United States.



2014

Establishing the new R&D centre for air conditioning systems.

2015

Construction of a factory for the production of air conditioners based on the IoT (Internet of Things).

2016

Acquisition of GE Appliances. Haier obtains an absolute RAC market share in the United State

2018

2018 Acquisition of Candy. Launch of Puri-Clean air conditioners.

2023

Haier enters the renewable energy market, introducing their new range of storage solutions and photovoltaics for residential use.

Haier

Haier AC R&D CENTER

R&D Labs


Evaluation of comfort


Rain simulation


Performance testing


Safety testing


Noise testing


Electromagnetic compatibility testing


Snow simulation


Sun simulation


Reliability testing


Humidity control test



Double 85 test


Drop test

Global Certifications



Haier AC IN EUROPE

Haier is a global leading provider of smart and comfort solutions with an ambition to continuously deliver unique and advance technologies, superior design and tailor-made experiences when it comes to the environment you're in and the air you breath. We have truly increased our presence in Europe as a trustworthy brand with a premium product offering, a growing network of distributors, post-sale service and 6-year warranty.

Haier Group was established in 1984 in Qingdao by Zhang Ruimin who has centred the business around the RenDanHeYi philosophy. The well-respected model, developed and implemented by Mr. Ruimin, is revolutionary as no other company operates in this way. RenDanHeYi puts the needs of the user first, with the model's core component being "zero distance" to the customers. At Haier are empowered to provide outstanding commitment and value to our partners and end customers, keeping them at the forefront at all times.

We have since gone from strength to strength, by continuously striving for the best in class and working towards developing premium products for Global markets with IoT at the heart of our R&D and product development. We have been on the list of BrandZ Top 100 Most Valuable Global Brands for four consecutive years as the world's first and only IoT ecosystem brand. Haier has also topped Global Major Appliances Brand Rankings by Euromonitor International for 15 consecutive years.

Haier's European HVAC operations has been active for over 30 years where we are fully supported by some of the most talented and dedicated partners and teams across Europe including, Italy, Spain, Portugal, UK, France, Central Europe and Germany. These markets carry a wide range of products which includes, Residential & Light Commercial solutions as well as Large Commercial and Heating Solutions, giving us a truly diverse offering to suit various applications from residential to larger Hotels and Retail applications.

Our total production capacity is over 27 million sets per year, supported by 16 Air Conditioning factories with 8 of them being in overseas markets. This outstanding capacity enables us to continually strive to lead the market in delivering Smart and Healthy solutions across Europe.



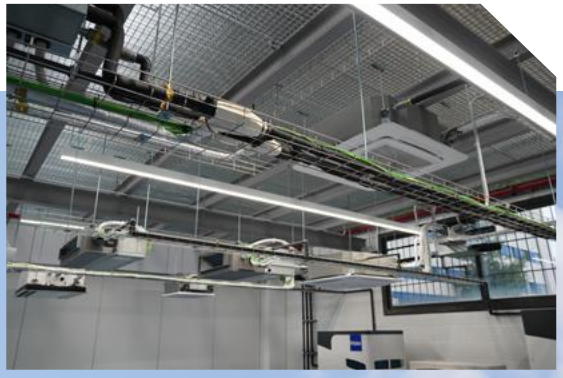
HVAC EUROPEAN TRAINING HUB

In 2022 Haier celebrated the opening of its new HVAC European training centre in Barcelona. The new Training Hub can facilitate a range of training programmes which is tailored to the needs of our professional network including installers and consultants. So far the Hub has welcomed close to 3000 visitors who have all been able to get close to the brand and solutions we have on offer.

The facilities are fully operational with 3 dedicated rooms, which includes products from our entire portfolio from Residential, Heating and Commercial solutions, giving visitors a truly hands on experience.

We look forward to welcoming our Distributors, Installers and Designers to come and experience Haier's HVAC Solutions first-hand.





Haier

NEW

Low Carbon Comfort, High Temperature Heating

Advance Heat Pump Technology



Thanks to the excellent thermodynamic performance of R290 and advanced heat pump technology, the new Haier R290 high temperature series helps to reduce carbon emissions and achieve carbon neutrality goals.

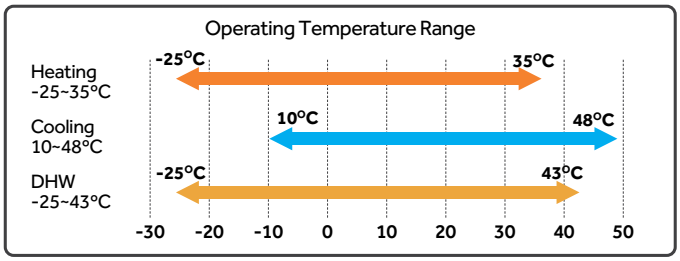
Ultimate Comfort

High Efficiency

High Reliability

Super Convenience

Wide Temperature Range



Smart Operation



Energy Monitoring + Touch Screen



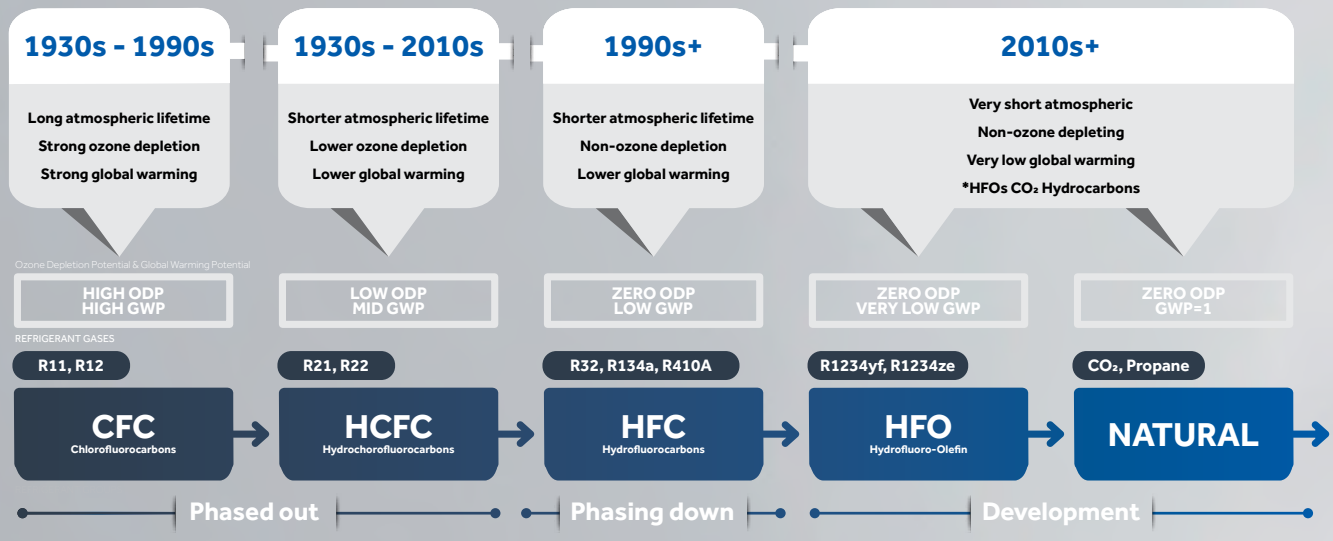
Find more information in our Heating brochure

R290

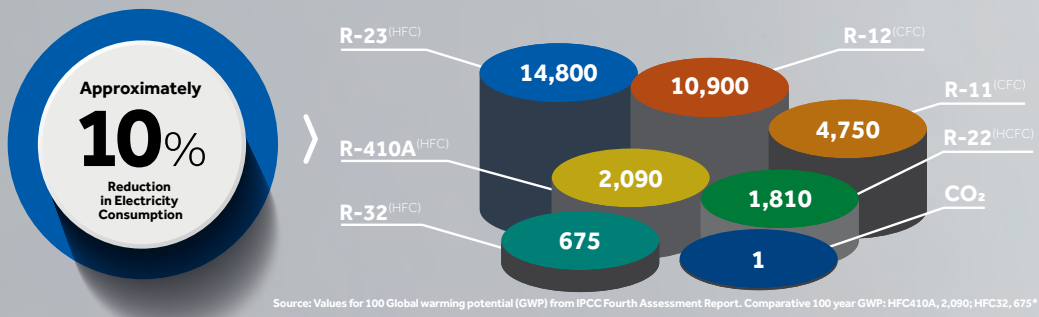
More Friendly To Nature

R290 with zero Ozone Depletion Potential and Low Global Warming Potential is Eco & Ozone-friendly, which reduces the harmful effects of the planet.

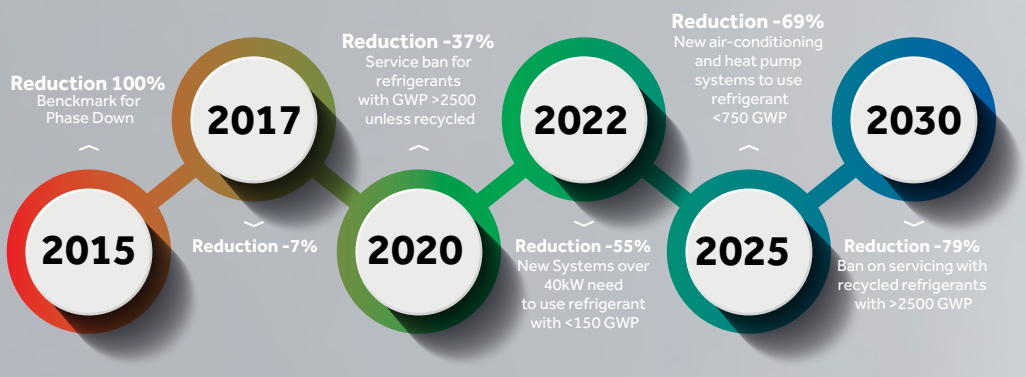
Transition towards lower GWP refrigerants



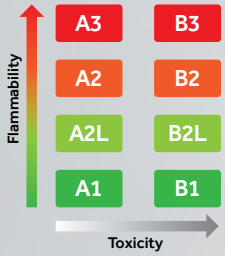
100 Year Global Warming Potential of Different Refrigerants*



Source: Values for 100 Global warming potential (GWP) from IPCC Fourth Assessment Report. Comparative 100 year GWP: HFC410A, 2,090; HFC32, 675*



Safety Group



The letter indicates toxicity level:
A = Low toxicity level
B = High toxicity level

The number indicates flammability level:
1 = Non flammable
2L = Slightly flammable
2 = Flammable
3 = Highly flammable

R290	R744 (CO2)
Refrigerant type : Natural	Refrigerant type : Natural
GWP: 3 / Safety Group: A3	GWP: 1 / Safety Group: A1

R717 (Ammonia)	R32
Refrigerant type : Natural	Refrigerant type : HFC
GWP: 0 / Safety Group: B2L	GWP: 675 / Safety Group: A2L

R410A
Refrigerant type : HFC
GWP: 2090 / Safety Group: A1

Haier

NEW

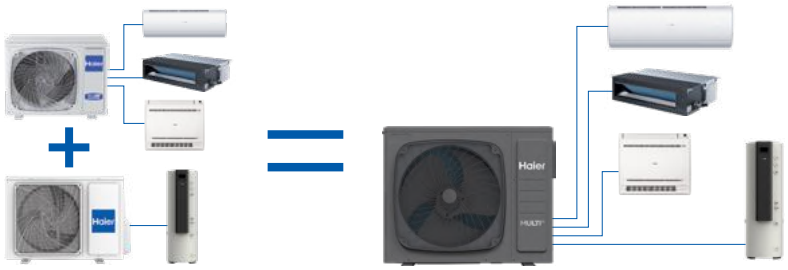
Introducing the R32 Super Match Plus Multi 3S

Revolutionary Integrated Solution of Air-conditioning and Domestic Hot Water with Heat Recovery



Integrated Heat Recovery Technology

Haier's R32 Multi 3S System integrated with a Heat Pump Water Heater is combined to provide an air to air Heating and Cooling as well as a domestic hot water. This is a perfect solution to reduce the consumption of power and replace ineffective or outdated water heating systems.



High Efficiency

The Multi 3S outdoor unit adopts DC inverter Twin Rotary compressor to ensure high energy efficiency, as an ideal solution to replace the old air electrical water heater systems.



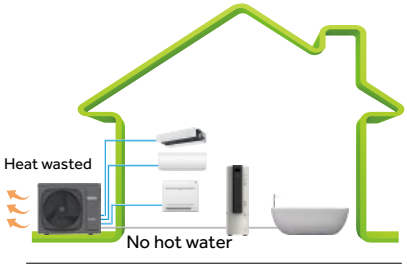
Cooling A+++ / Heating A++



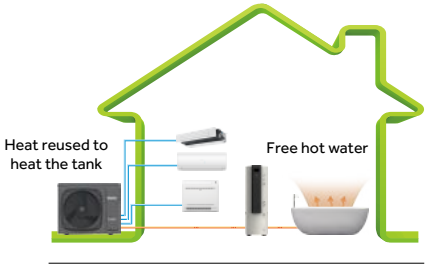
Heating DHW

Heat Recovery

The Multi 3S system adopts Heat Recovery Technology to deliver simultaneous Cooling or Heating and Domestic Hot Water (DHW). Under cooling mode, the system reuses the heat exhausted from the outdoor unit to heat the tank, which means users can enjoy free DHW.



Without Heat Recovery



With Heat Recovery



ULTIMATE SMART

Recent years have seen the rapid development of telecommunication and IoT technology. Smart appliances have become the new household trend where Haier has taken the lead. With smart functions, you can customise the services to your needs, by controlling your air conditioner from anywhere and anytime, and so much more.

Since earlier exports to Italy in 2013, we are selling smart air conditioners to over 130 countries and regions, with sales volume exceeding 25 milion units globally. In 2023, Euromonitor International, a leading market research company, named Haier as the world's leading brand for connected air conditioners (including smart air conditioners) with a 31% market share in terms of sales volumes in 2020.



Voice Control | Wi-Fi | Eco Sensor | Wi-Fi Easy Pair | 3-Level-Eco

EUROMONITOR INTERNATIONAL
Certified as the global No.1 connected AC brand.
(Data: Euromonitor, March, 2023)

WI-FI CONTROL



Haier's new Wi-Fi "hOn" app, enables you to take control of all the Haier group appliances in your Smart Home from a single app on your smartphone or tablet.

The hOn app allows you to manage all the basic functions and much more. The app can also respond to voice commands because it is compatible with Google Assistant and Alexa.

TECHNOLOGY

Integrated Wi-Fi module

The Wi-Fi module is already built into the air conditioner. In order to control the units via smartphone or tablet it is necessary to download the hOn app from the App Store, Google Play and Huawei AppGallery. You can also use the QR Code here to locate the app.

GET IT ON Google Play
Available on the App Store
EXPLORE IT ON AppGallery

BENEFIT

Customised Service

Here are some of the functions you can enjoy with "hOn" app.



Group Control
Control multiple units on one single smart phone device.



Smart Reminder
Sends regular notifications to user to clean the filter mesh.



Weekly Timer
Sets temperature and fan speed for the week ahead.



Error Alert
Error code is shown on the app when it malfunctions.



Convenient Control
Controls air conditioner from anywhere and anytime via network.



Custom Program
One button for user DIY program.



Voice In APP
Built-in voice control for easy for the interaction.



Holiday Mode
Set holiday mode with one simple touch.



Energy Consumption
Know your electricity consumption in real time.

VOICE-CONTROL



Total comfort is also when words are worth more than actions. With Haier's voice control function, you can manage the main functions of one or more air conditioners, simply through verbal communication.

To use this function, you must ensure that the Haier air conditioning units are connected to the Wi-Fi network and configured with a Smart Home. (Smart Home device not supplied by Haier for compatible devices, please contact head office).

TECHNOLOGY



hOn App

The new hOn App is a single digital environment to control, manage and enjoy, getting the most out of all Haier group products.

With the hOn App, it is possible to control all your Haier Group smart appliances, using voice control via the most popular voice assistants. It was created, using the latest technologies for smart appliances, to make it simpler and easier to use.

BENEFIT

Customised Service

Here are some of the functions you can enjoy with "hOn" app.

- Turn on/off the air conditioner.
- Is the air conditioner on/off?
- Set the air conditioner to 20 degree.
- What is the temperature set on air conditioner?
- Set the air conditioner to heat/cool/smart mode.
- What mode is the air conditioner set?
- Set the air conditioner to low/medium/high/auto speed.
- What is the air conditioner speed?

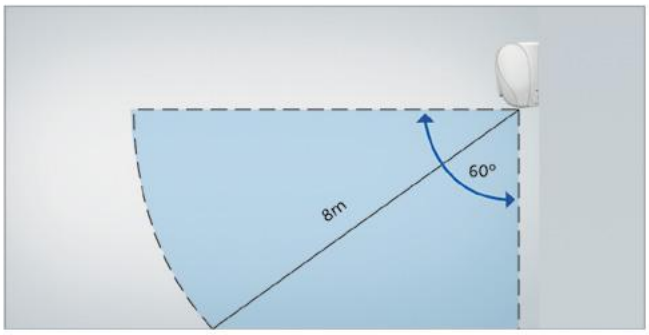
ECO SENSOR



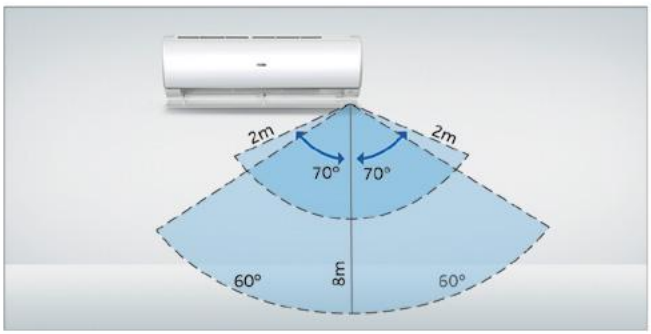
TECHNOLOGY

The smart sensor detects the condition of air and people's movement in real time, automatically adjusting the operating mode of the air conditioner to improve energy efficiency and optimise the users experience.

With two built-in modules, the Eco sensor uses a double area detection with a maximum angle of 120 degrees and a distance of 8m. The sensor automatically detects the presence of people inside a room and adjusts the air flow by activating the "Follow" or "Avoid" mode according to your specific needs.



Vertical Detection Area



Horizontal Detection Area

A larger area of detection and the identification of people's exact location ensure the best possible user experience. The brightness sensor detects any change in light intensity. When night falls or the light goes out, the air conditioner enters "sleep" mode.

BENEFIT

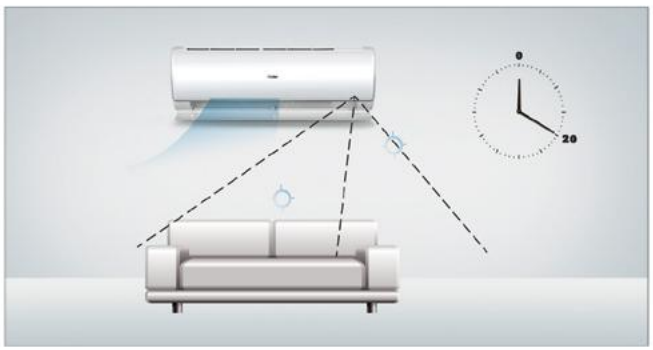
Increased Comfort

If a high body temperature is detected, the fresh air flow is directed towards the person. If a low body temperature is detected, the air flow is diverted.



Energy Saving

The Echo sensor automatically detects the location and movements of people in the room. If the room is empty, the air conditioner activates the power saving mode within 20 minutes.



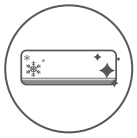


ULTIMATE HEALTH

Air pollution is becoming widespread in emerging economies. Long exposure to polluted air threatens our health. When you breathe, pollutants such as PM2,5 are inhaled. They cause discomfort, and may lead to lung or heart disease. Besides, there are numerous allergen and asthma suffers worldwide who are vulnerable to pollen, mold spores, smoke, gases and chemicals. They need cleaner air to have better health and peace of mind. In 2020, the Covid-19 pandemic brought large-scale disruption to our lives. Therefore, having healthy air for us to breathe has become more important than ever before.

Haier has been always been dedicated to healthy air innovations. With our advanced technologies, research and development, we aim keep our air conditioner clean all the time, and ensure gentle, healthy airflow for continuous comfort.

Delivering Clean Air


Self Clean



56° Steri-Clean



Self Hygiene

Deliver Healthy Air

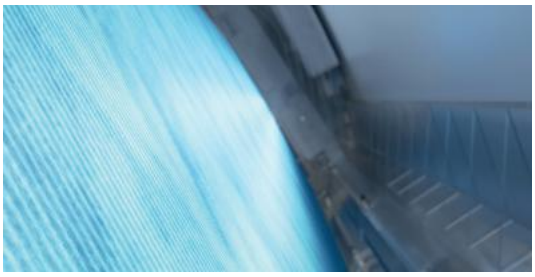

Puri Clean


IFD Sterilisation



UVC Sterilisation

DELIVERING CLEAN AIR



SELF-CLEAN

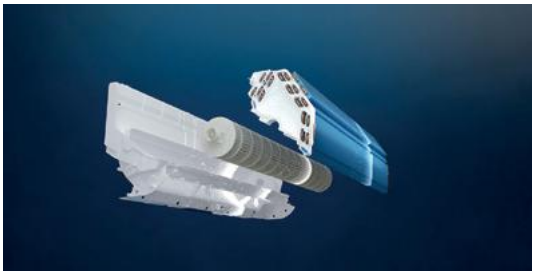
Freezes the evaporator with moisture in the air and removes dirt during the defrost process, ensuring healthy air output.



56°C STERI-CLEAN

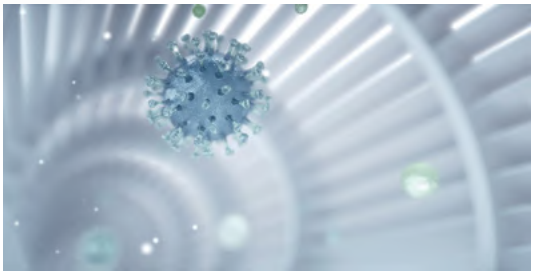
Kills bacteria and viruses by heating the evaporator to 56°C high temperature for 30 minutes.





SELF-HYGIENE

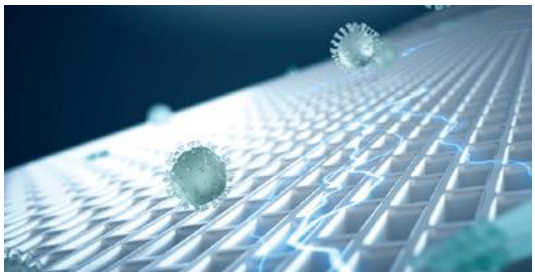
The surface area of the heat exchanger of all units in the residential range is coated with silver ions to prevent the creation of mould and bacteria.



EASY-TO-CLEAN

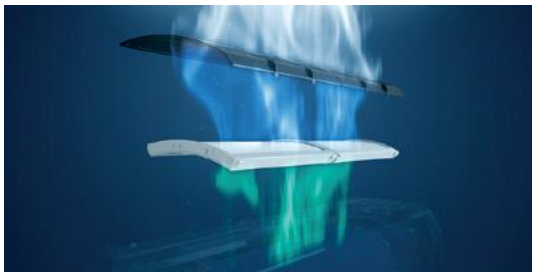
Easy access to the fan and filter allows for deep cleaning to ensure healthy clean airflow

DELIVERING HEALTHY AIR



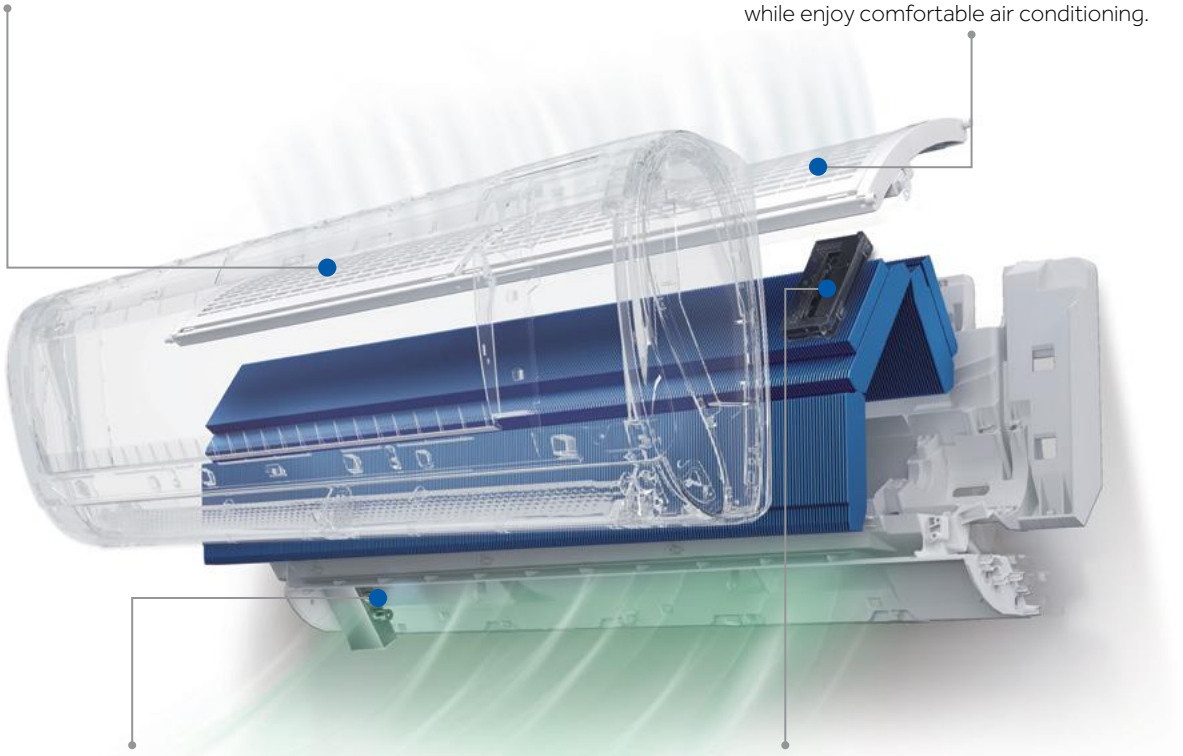
SUPER-IFD

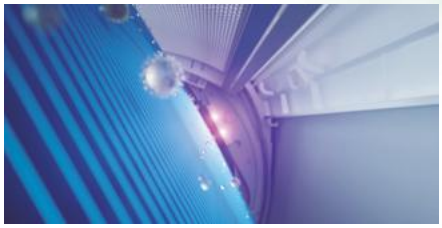
IFD filter capable of filtering out pollutants, allergens and bacteria in the air with up to 99.9% efficiency (TÜV certified).



PURI-CLEAN

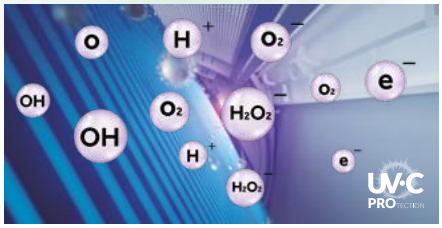
Utilises advanced IFD purification filter to remove all kinds of airborne pollutants and allergens with efficiency up to 99.9% while enjoy comfortable air conditioning.





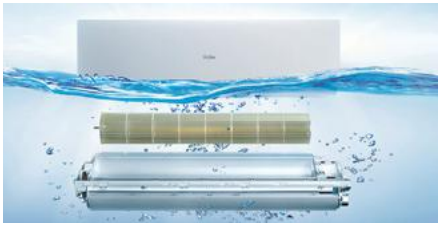
UVC STERILISATION

Emits UV light to sterilise the air passing through with efficiency up to 99.998%.



UVC PRO

Inhibits the reproduction of bacteria, by breaking down hydron and oxygen molecule and generates ionic group which inhibits bacteria and sterilises virus after contacting.

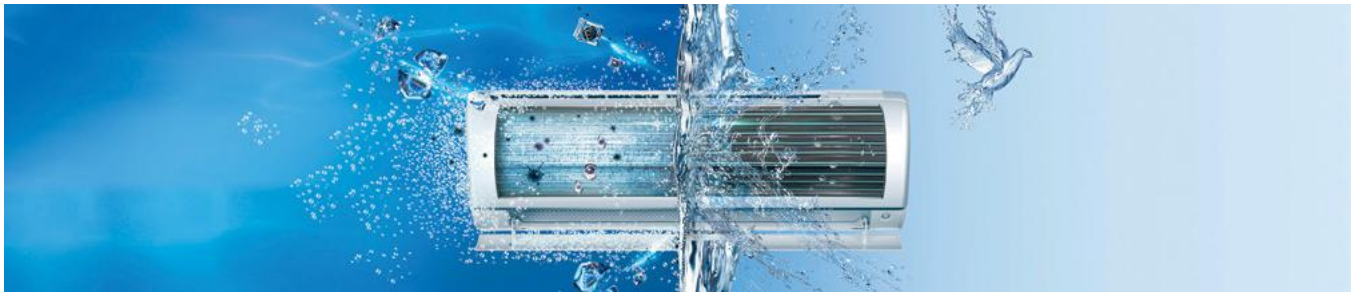


EASY CLEANING

Thanks to the easy disassembly of components it is possible to carry out a more thorough cleaning of the internal surfaces, therefore ensuring the healthiest air comes out of the air conditioner.



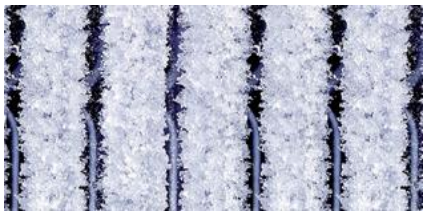
SELF-CLEAN FUNCTION



During operation, dirt accumulates on the evaporator. If the evaporator is not cleaned regularly, accumulated dirt reduces the thermal exchange by 15-30% and also promotes the proliferation of bacteria and mould.

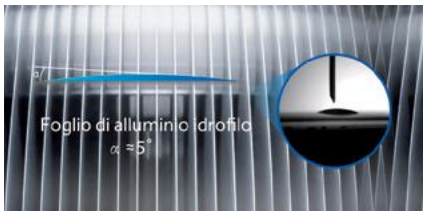
TECHNOLOGY

Cold expansion technology



The layer of frost that forms on the evaporator/condenser generates a strong force of cold expansion that easily removes dirt from the surface.

Express washing technology



Low-angle hydrophilic aluminium foil speeds up water drainage by 20%.

Antibacterial technology



The coating contains silver nanoparticles capable of effectively killing 99% of the bacteria by inhibiting their proliferation.

The new Self Clean technology is the first of its kind to integrate the self-cleaning function of both the evaporator and the condenser. It starts with cleaning the evaporator, then switches to cleaning the condenser without stopping the compressor.

BENEFIT



Cleaner air

This innovative technology allows you to kill bacteria and keep the evaporator clean.



Increased energy efficiency

Our air conditioner always works at maximum cooling capacity with very high energy efficiency.



Savings on cleaning costs

The automated cleaning process eliminates the frequency of manual cleaning by a service engineer.

TUV Certification



TÜVRheinland

Verification on Cooling Expansion
Rate & Defrosting Residual Rate of
Air Conditioner with Self-cleaning Technology

Reference No.: 50417703 001

This Test Result Verification is based on the results of a sample of the below-mentioned product and is to verify that the evaluated sample had complied with the below-mentioned requirements, but this does not imply assessment of other products with same design to the evaluated item. In addition, this does not permit the use of any conformity marks of TÜV Rheinland.

Applicant: Qingdao Haier Air Conditioner General Co., Ltd.
No.1 Haier Road, Hi-tech Zone, Qingdao, 266101, P.R. China

Product: Split Type Room Air Conditioner

Identification: Indoor unit : AS09FBBHRA (Haier)
Outdoor unit: 1U09JACFRA
AC 220-240V,50Hz,R32,1.1kg,Class L/P24 for outdoor unit
Serial No.: Engineering sample
Remark: Refer to test report 50165765 001 for details.

Tested acc. To: Haier Q/HKT J09101-2017
Self-cleaning technical requirement and test methods for room air conditioner

This Test Result Verification is based on our testing but not a certificate (or equivalent one). Hereby it should be used as cover page of the testing report issued simultaneously.

TÜV Rheinland (Shanghai) Co., Ltd.
TÜV Rheinland Building I, No.177, 178, Lane 777, West Guangzhong Road Jing'an District, Shanghai, China

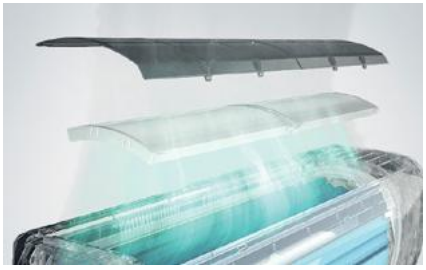
Lihong Xiong
Date of issue: 29.09.2018

SUPER-IFD STERILISATION



Absorbs and kills virus and bacteria in your environment with an efficiency of up to 99%.

TECHNOLOGY



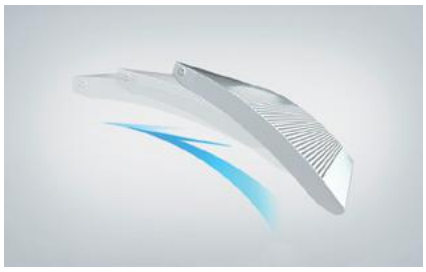
Super filter IFD

This innovative filter consists of 6818 ventilation holes, spread over a total area of 8180 cm^2. When air purification is activated, the generated static electricity absorbs pollutants in the environment.



Smart air quality sensor

A high-definition precision sensor installed on the suction grid detects the presence of dust and allergens in the air and displays the information on the screen in real time. When the air quality is good, the green light is turned on. When it is poor, the red alarm light is turned on.



Smart purification

The IFD filter is located at the front of the evaporator. When the air quality detected in the room is poor and purification mode is activated, the IFD filter flows upwards to completely cover the air input.

BENEFIT



Deliver Healthy Air

Super-IFD Sterilisation can efficiently kill airborne bacteria & mold and effectively filter out anaphylactogen such as pollen, dust (PM2,5 & PM0.3).
Sterilisation Rate: > 99%



Easy-to-Clean

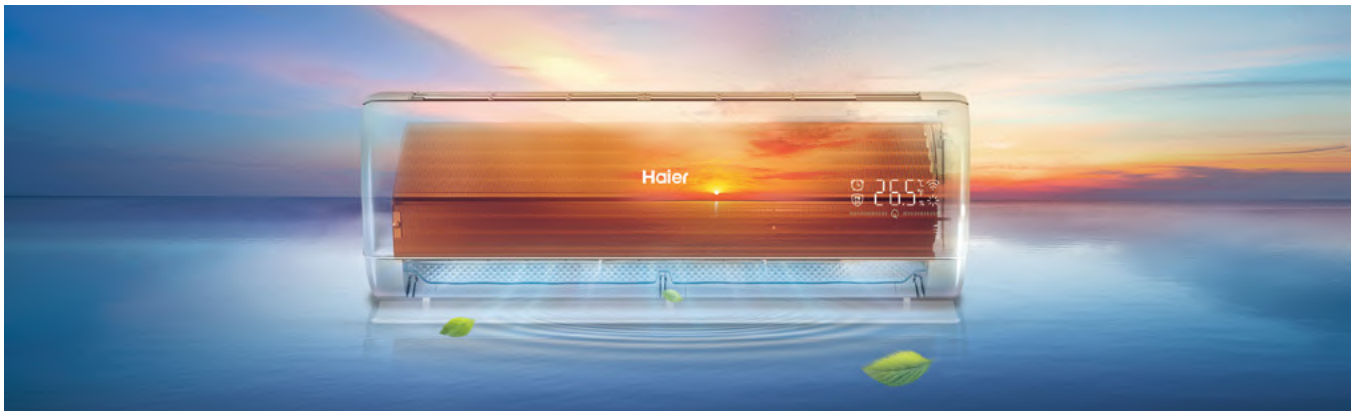
The IFD filter is in detachable design. When the filter is dirty after long-time usage. It can be washed and reused.

SGS Certification*


SGS

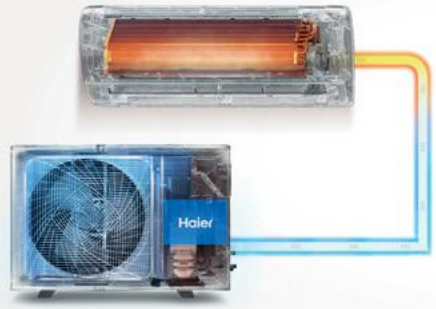
VERIFICATION OF
56 ℃ STERILIZATION WITH A DURATION 30 MINUTES Page: 1 of 1

56°C STERI-CLEAN



Kills bacteria and viruses by heating the evaporator to 56°C high temperature for 30+ minutes.

TECHNOLOGY



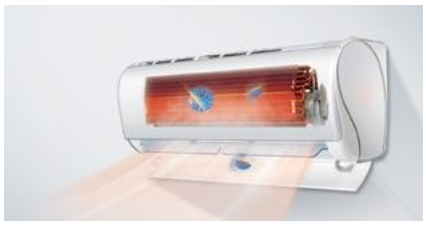
High Temperature Sterilisation

Almost no bacteria and virus can survive at 56°C for 30+ minutes based on latest research. Once the heating process is done, the evaporator is cooled down instantly to achieve better Sterilisation performance.

Smart Frequency Control

It intelligently adjusts the compressor frequency to control the coil temperature and then maintains the evaporator at 56°C high temperature.

BENEFIT



Delivering Healthier Air

56°C high temperature sterilisation dries the components inside, and kills bacteria and virus, ensuring healthy air coming out of air conditioner.



Eliminates Bacteria

As a result of this process the viruses and bacteria are eliminated from both the exchanger and other surrounding components of the machine. The result is also tested by the SGS laboratories which have shown its effectiveness.



Easy-to-Operate

The function is available via hOn APP and you can turn it on with just a simple tap.

SGS Certification*



SGS

VERIFICATION OF
56 °C STERILIZATION WITH A DURATION 30 MINUTES Page: 1 of 1

No.:	SHES2004007144471
Applicant:	Qingdao Haier Air Conditioner General Corp., Ltd No. 1 Haier Road Hi-Tech Zone, Qingdao City, P.R. China
Manufacturer:	Same as applicant
Product Description:	Split Type Room Air Conditioner
Model No.:	AS09JBJHRA/1U09MEJFRA AS25S2SJ1FA-3/1U25MECFRA-3 AS09JBCHRA/1U09MECFRA AS25S2SJ1FA-4/1U25MECFRA-4 AS25S2SJ1FA-H1/1U25MECFRA-3 AS25S2SJ1FA-H1/1U25MECFRA-4 AS12JBJHRA/1U12MEJFRA AS35S2SJ1FA-3/1U35MECFRA-3 AS12JBCHRA/1U12MECFRA AS35S2SJ1FA-4/1U35MECFRA-4 AS35S2SJ1FA-H1/1U35MECFRA-3 AS35S2SJ1FA-H1/1U35MECFRA-4
Rating:	230 V, 50 Hz Remark: Refer to test report SHES2004007144471 for details.
Protection against Electric Shock:	Class I
Degree of Protection:	IPX4
Additional Information (if any):	None
Test Standard:	Haier Q/HKT J09101-2020 General Requirement for Self-cleaning Room Air Conditioner Annex B: 56°C Technical requirement and test methods for room air conditioner
Test Clause:	
as shown in the Test Report Number(s):	SHES2004007144471

Sufficient samples of the product have been tested and found to be in conformity with

Andrew Zhai
E&E Safety Lab Technical Manager
SGS-CSTC

2020-05-18

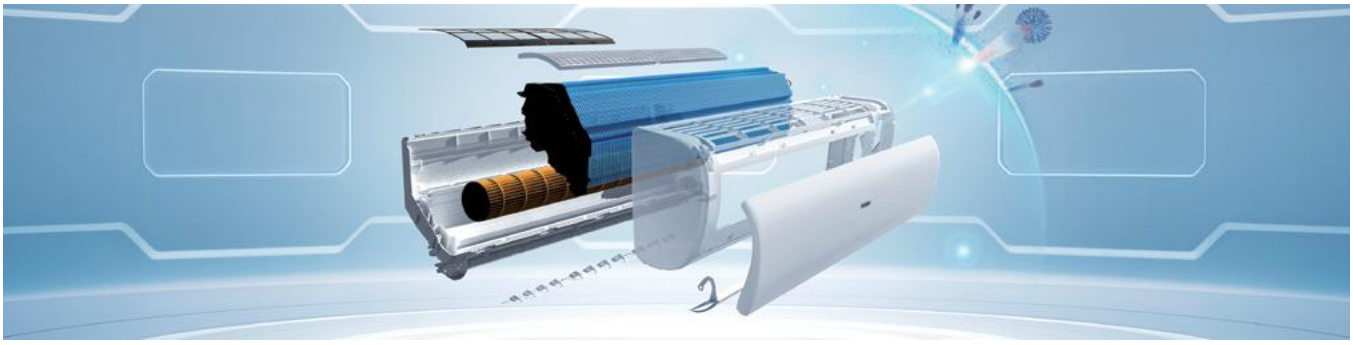
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Note: You may contact us to validate this document by email address: EE.shanghai@sgs.com

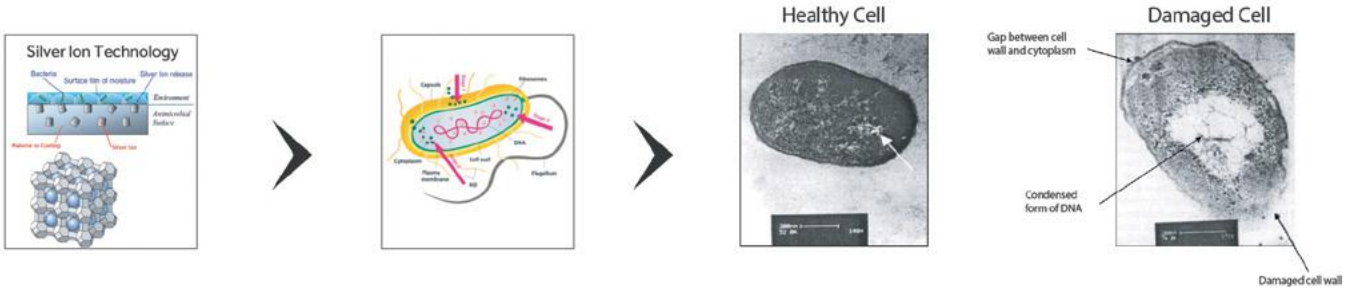
SHE-VOC-HAIER-F021 / V1.0
Effective Date: 2020-05-15

SELF-HYGIENE



Mould and bacteria are diffused in the air. Although not all microbes compromise air quality and cause disease, some harm our health if we don't manage them well. Haier air conditioning with the Self-Hygiene incorporate silver nanoparticles into the heat exchanger surface to inhibit bacterial growth.

TECHNOLOGY



Silver nanoparticles

Molds and bacteria are widespread in the room air. They compromise air quality and cause diseases. When the air conditioner is turned on, the fan blows, and the dirt is attached to the components of the indoor unit. These elements lead to the growth of mold and bacteria. Silver nanoparticles continuously release a low level of silver ions to provide protection against molds and bacteria.

BENEFIT



Healthier air

Mould and bacteria are no longer able to grow and proliferate in the components through which air passes, and the silver ions do not cause any damage to the human body. Therefore, the air coming out of the air conditioner is always healthy.



Savings on cleaning costs

It is necessary to regularly clean and sterilise the equipment to keep the internal surface clean.
This saves you money on the cost of a cleaning service technician.

SGS Certification



EASY-TO-CLEAN



The indoor unit is designed to allow quick and thorough cleaning of the air conditioner's internal components and simplify disassembly of the main components such as the electronic board, motor and fan. Deep cleaning ensures that bacteria, dust and removal of bacteria, dust and mould that are deposited inside the unit over time and during use.

TECHNOLOGY



Disassembling the indoor unit is quick and easy.

10 steps for removing the fan unit.

1. Open the filter cover panel
2. Lift up the two locking hooks
3. Unscrew the safety screw
4. Open the baffle slightly and remove the lower panel.

lower panel

5. Disconnect the 3 connectors at the bottom
6. Disconnect the condensation drain pipe
7. Unhook the 2 clips at the bottom of the body
8. Remove the fan unit, paying attention to the 2 hooks in the front

hooks at the front

9. Push the fan assembly downwards
10. Clean or carry out the maintenance operation

BENEFIT



Keep AC Clean

Regular cleaning of the core components including fan and air duct is crucial to maintaining the AC clean.



Saving Cleaning Cost

The innovative design improves the disassembly of the AC dramatically. It saves a lot of time and money if you do it on your own.

SGS Certification*



SGS

VERIFICATION OF 5-star Easy-to-Clean COMPLIANCE

Page: 1 of 1

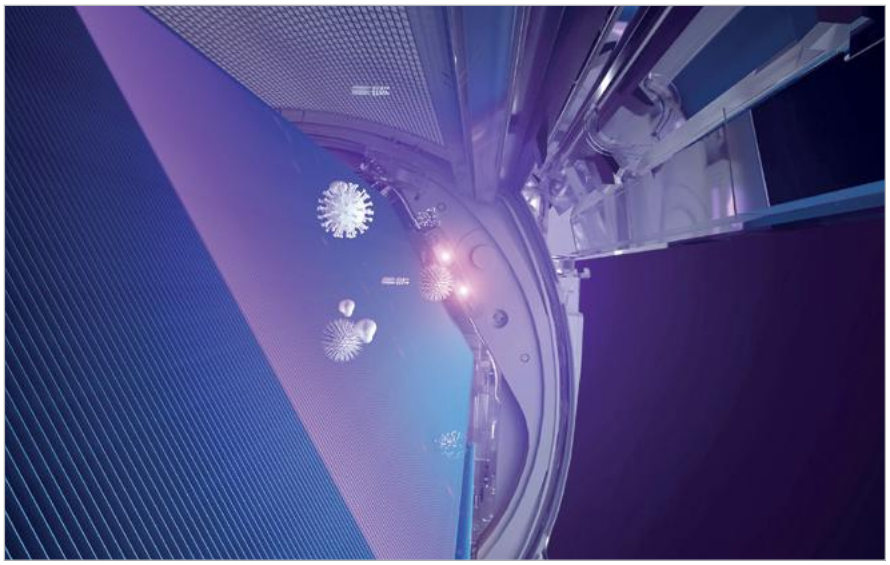
*The Verification of 5-star Easy-to-Clean Compliance is tested on Q/HKT J09230-2021 standard by SGS. The test report shows that the star rating of Haier Expert series air conditioner (refer to the test report for detailed model numbers) on the PCB disassembly, motor disassembly, and fan disassembly is 5 star, which is the highest the rating scale.

UVC STERILISATION



The built-in LED UV light kills airborne hazards when the air circulates from air inlet, and delivers healthy air to your room. Haier integrates UVC technology to the Commercial range, allowing duct systems to sterilise the air we breathe in offices, hotels and other commercial buildings.

TECHNOLOGY



UVC Wavelength

UVC is the shorter, and more energetic wavelength ranging from 200-280nm of the sunlight spectrum. It is particularly efficient in destroying genetic material.

Built-in UV Lights

The UV lights emit rays near the air inlet where room air circulates into the AC. The airborne hazards are instantly killed when passes through the area.

Safety Lock

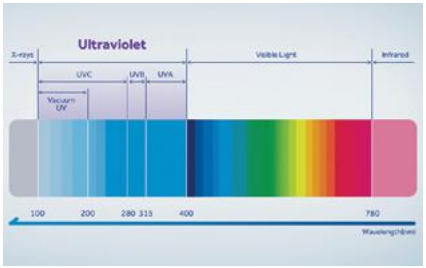
When the front panel is open, the air conditioner will automatically turn off the UVC lights. It avoids potential risks of direct exposure.

BENEFIT



Safe, Reliable Operation

It eliminates airborne hazards, with no harmful chemicals, no residuals, and no burden to the environment.



Efficient Sterilisation

Haier UVC sterilisation utilises the wave-length between 265-275 nm, which is stronger in destroying the invisible pollutants in the air.

TUV Certification*



TÜVRheinland

Verification on Cooling Expansion Rate & Defrosting Residual Rate of Air Conditioner with Self-cleaning Technology

Reference No.: 50417703 001

This Test Result Verification is based on the results of a sample of the below-mentioned product and is to verify that the evaluated sample had complied with the below-mentioned requirements, but this does not imply assessment of other products with same design to the evaluated item. In addition, this does not permit the use of any conformity marks of TÜV Rheinland.

Applicant: Qingdao Haier Air Conditioner General Co., Ltd. No.1 Haier Road, Hi-tech Zone, Qingdao, 266101, P.R. China

Product: Split Type Room Air Conditioner

Identification: Indoor unit : AS09FB8HRA (Haier) Outdoor unit: YU09UACFRA AC 220-240V,50Hz,R32,1.1kg,Class I,IP24 for outdoor unit Serial No.: Engineering sample Remark: Refer to test report 50195785 001 for details.

Tested acc. To: Haier QIHKT J09101-2017 Self-cleaning technical requirement and test methods for room air conditioner

This Test Result Verification is based on our testing but not a certificate (or equivalent one). Hereby it should be used as cover page of the testing report issued simultaneously.

TÜV Rheinland (Shanghai) Co., Ltd. TÜV Rheinland Building I, No.177, 178, Lane 777, West Guangzhong Road Jing'an District, Shanghai, China

Lihong Xiong

Date of issue: 25.09.2018

UVC STERILISATION

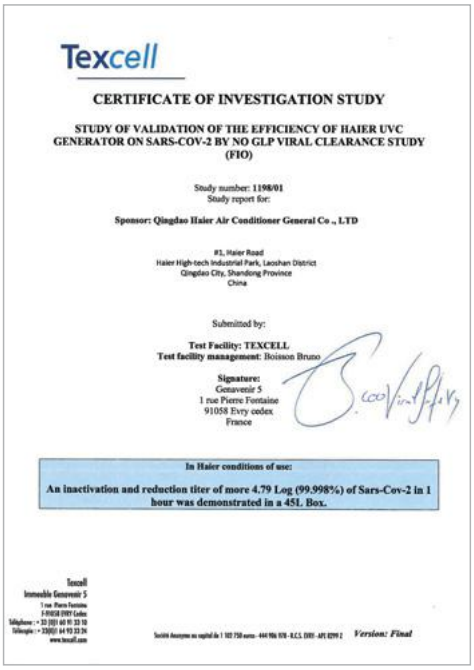
Haier's UVC generator has received a Certificate of Inactivation on the Novel Coronavirus, from leading Texcell S,A, an independent viral testing laboratory in France.

The global research organisation, concluded that the Haier UVC generator inhibits **99.998%** of Novel Coronavirus (SARS-CoV-2) within their sealed test facilities.

The test was conducted in a 45L enclosed box in laboratory conditions, where the Haier UVC GENERATOR effectively inhibited SARS-CoV-2, with an efficiency up to **99.998% in 1 hour.**



TEXCELL Certification*



Texcell

CERTIFICATE OF INVESTIGATION STUDY

STUDY OF VALIDATION OF THE EFFICIENCY OF HAIER UVC GENERATOR ON SARS-COV-2 BY NO GLP VIRAL CLEARANCE STUDY (FIO)

Study number: 1198/01
Study report for:

Sponsor: Qingdao Haier Air Conditioner General Co., LTD

#1, Haier Road
Haier High-tech Industrial Park, Laoshan District
Qingdao City, Shandong Province
China

Submitted by:

Test Facility: TEXCELL
Test facility management: Boisson Bruno

Signature:
Genavenir 5
1 rue Pierre Fontaine
91058 Evry cedex
France

In Haier conditions of use:

An inactivation and reduction titer of more 4.79 Log (99.998%) of Sars-Cov-2 in 1 hour was demonstrated in a 45L Box.

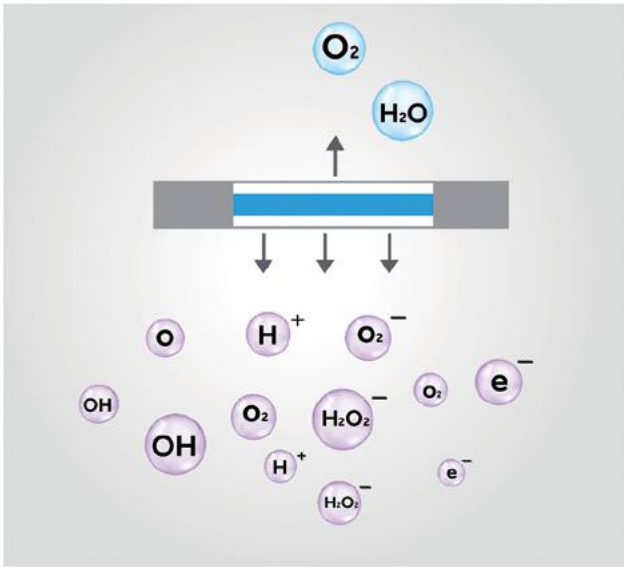
Texcell
Immeuble Genavenir 5
1 rue Pierre Fontaine
F-91058 EVRY Cedex
Téléphone : + 33 (0)1 60 91 33 50
Télécopie : + 33(0)1 64 93 33 34
www.texcell.com

Version: Final

UVC PRO

UVC Pro is a technology that works in the UV ray spectre and, in particular, in two wavelengths:

- **UVC rays** inhibit bacteria and virus present in the airflow that goes through the rays generated by the lamp.
- **Vacuum UV** rays generate hydroxyl radicals that release into the environment improving the efficiency of airborne virus and bacteria inhibition.



BENEFIT

Powerful air purification

Doubles the efficiency in air purification with UVC rays and the hydroxyl radicals generated through photolysis. Furthermore, no substance is released into the air making it environmentally conscious.

Easy to activate and manage

This function is available through the hOn APP and can be activated with a simple touch.

The UV Vacuum ray absorption induces the osmose and the following ionization of the water molecules. Several studies show that the irradiation of the water molecule with a lamp that has a wavelength of 185nm causes a quick elimination of the microscopic organisms, caused by the decomposition of the organic molecules present in the environment.



ULTIMATE COMFORT

As the constant advancement of air conditioning innovations, conventional cooling and heating solutions can no longer meet the evolving consumer demands. Haier provides the most comfortable air conditioning experiences to users. The PID inverter technology enables air conditioner to reach desired temperature much quicker, and maintain it precisely. It delivers faster, and more comfortable cooling performance. With innovative Triple Airflow, we utilise unique dual-blade air deflector that generates stronger, more concentrated airflow, and sends it to every corner of your room. Our solutions also provide whispering air that is quiet to down to 15db (A), and so much more.



Hyper PCB


Anti-Corrosion



Inverter PLUS


Coanda Plus


I Feel


Silence

COANDA PLUS AIRFLOW

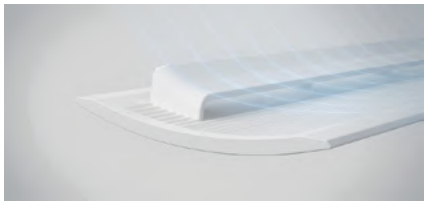


Coanda Plus Airflow enables the air to flow further, faster and strong for even air distribution through out the room.

TECHNOLOGY

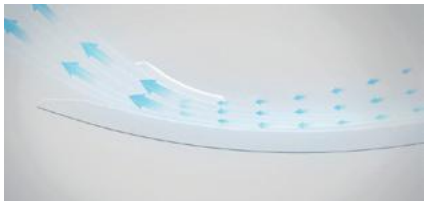
The Coanda plus airflow, made up of 3 parts under micro-perspective, delivers air in a more intuitive way, and forms the all-space circulation.

Air deflection



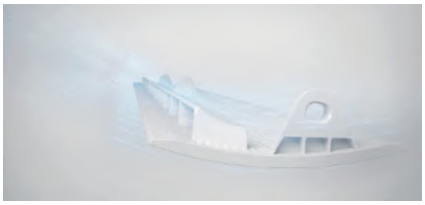
The application of the dual-layer wind deflector structure creates the unique Archimedean spiral that directs the cold airflow to the ceiling with 35° elevation.

Air speeds up



The optimal pressure expansion duct that is narrow inside and wide outside between dual layers where Venturi Effect occurs when air flows through the duct. Thus, the airflow is instantly released at high speed.

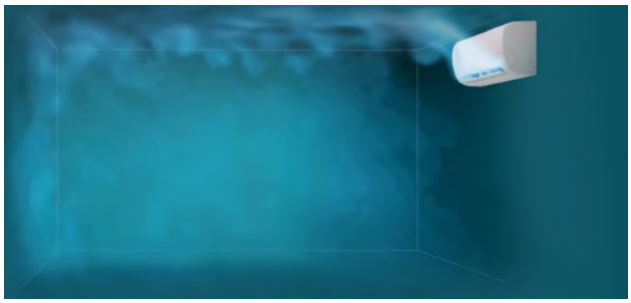
Supplemented Airflow



The airflow below the air deflector, absorbed tightly by the negative pressure generated by the faster airflow in-between, joins the main airflow and makes it even more stronger.

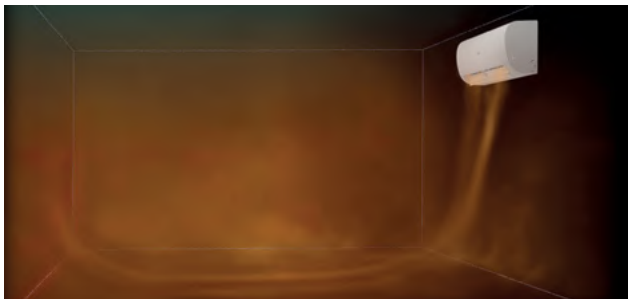
BENEFIT

Archimedean Spiral



When the cooling mode is turned on, the cool air rises with 35° elevation to the ceiling, so users can avoid direct exposure to the cold airflow blowing out of the air conditioner. It is evenly dispersed from the ceiling to the floor of your room in a much more faster and more comfortable way.

Venturi Effect



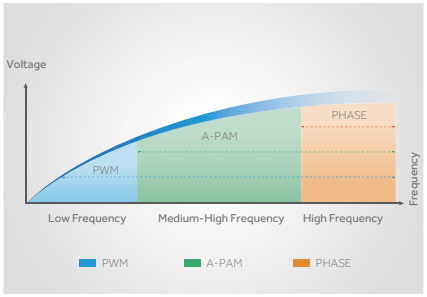
When the heating mode is turned on, the warm air is delivered directly to cover the floor. And then the warm air circulates to the whole space, and ensures the temperature is balanced at every corner of your room.

INVERTER PLUS



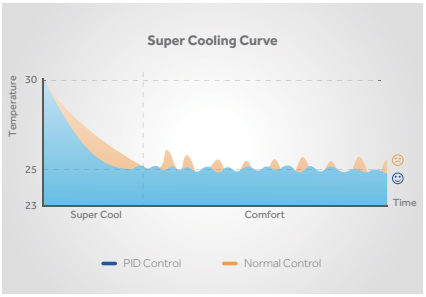
Compared to conventional inverter technology, Haier Inverter Plus integrates the TLFM, PID and A-PAM inverter controls to achieve intelligent control of the air conditioner, and at the same time provide maximum comfort, reliability and highly efficient performance.

TECHNOLOGY



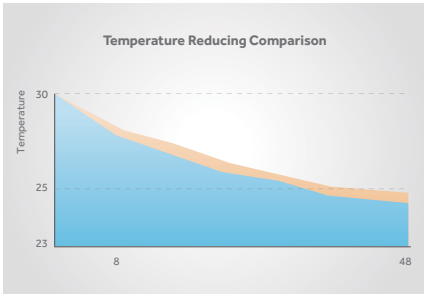
TLFM Inverter Control

TLFM (Triple Link Frequency Modulation) technology uses 3 different voltage controls to optimally manage operational efficiency at each frequency stage.



PID Inverter Control

The PID (Proportion Integration Differentiation) regulation technology optimises the operating frequency before reaching the desired temperature and then constantly makes real-time adjustments to keep the air temperature at the desired temperature.



A-PAM Inverter Control

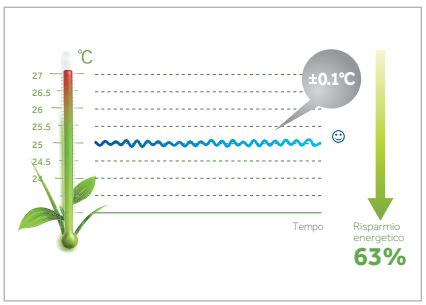
The A-PAM (Adoption-Pulse Amplitude Modulation) inverter control technology automatically adjusts the voltage of the DC bus based on the compressor load, increasing the range of operating voltage.

BENEFIT



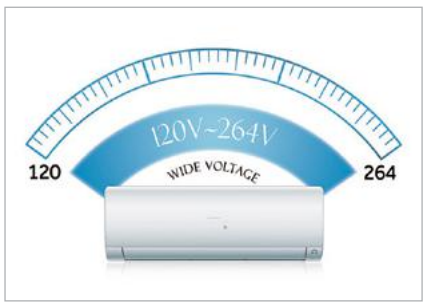
Energy saving Performance

Inverter Plus reaches high operational efficiency at all frequency stages.
The cooling/heating performance is much faster and more powerful.



Fresh & comfortable airflow

When the air conditioner is on, Inverter Plus reaches the desired temperature much faster than a traditional system, Keeping it at a difference of ±0,1 °C thanks to a precise temperature control.



Reliability

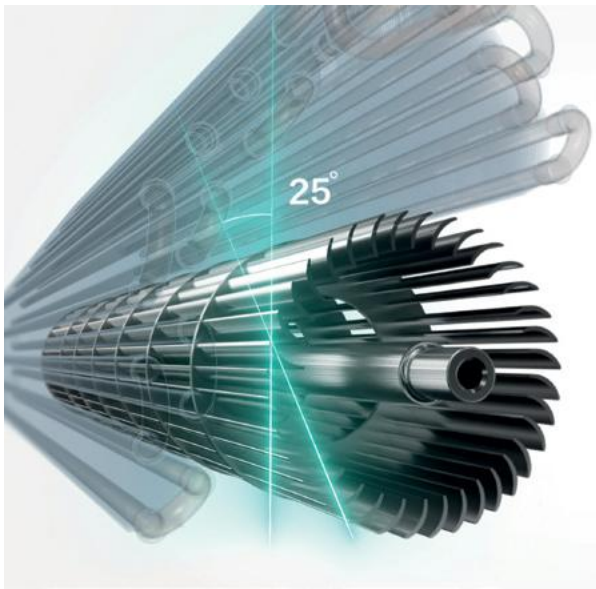
Inverter Plus adjusts the CC voltage by achieving stable operation between 120V-264V and ideal voltage control. The fresh air is able to reach even the most distant points of the room despite the current changes.

LOW NOISE LEVEL



Have you ever been disturbed by the constant hum of an air conditioner during the day or night? In most instances having a powerful air conditioning system simply isn't enough. Power as well as comfort, and quiet operation matters whilst enjoying your free time. With a noise level of 15 dB(A) you can have it all.*

TECHNOLOGY



Optimised design of air ducts

The surface of the suction grill has been increased by 17%. The space between the evaporator, the front panel and the suction grille has also been increased. This reduces the noise level.

Optimised cross-flow fan

By improving the inclination angle of the fan to 25 degrees, the surrounding airflow undergoes a smaller deviation, minimising the fan noise.

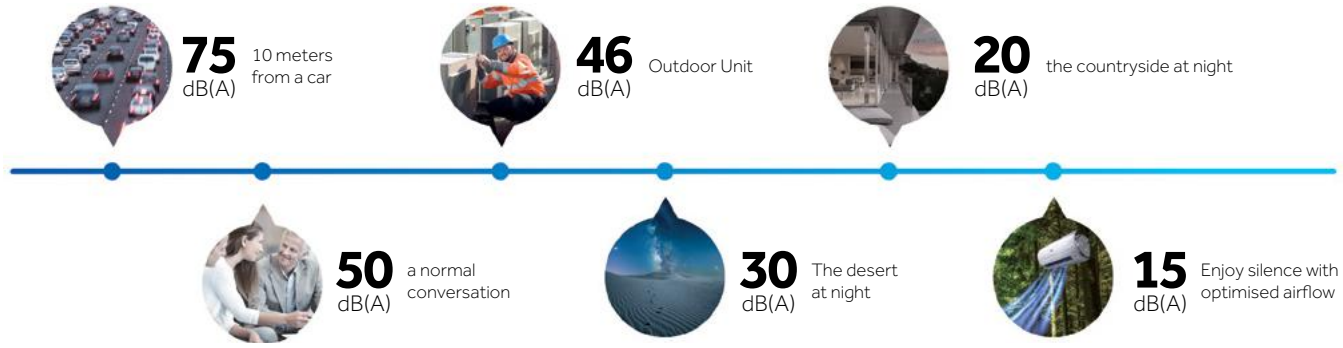
Electronic control system

The electronic control system uses DC inverter A-PAM technology and DC fan motor. It provides high static pressure, thereby reducing the noise produced by the indoor unit during its operation.

BENEFIT

Fresh air with a low level of noise

A noise level of only 15dB(A) guarantees a silence that you can't even imagine.
It's so quiet that you don't even notice it's on and it doesn't distract you from what you're doing.



(Note: 15 dB(A) refers to the 9000 BTU model of the Jade Supermatch series.)

* (Source: Data tested on 9000 BTU models of the Jade Supermatch series)

HYPER PCB



Provides consistent, powerful cooling with optimised design to cope with voltage fluctuations and unexpected damages that may lead to malfunction of the air conditioner.

TECHNOLOGY

Thicker Conformal Coating

The PCB is covered with thicker conformal coating that is better than the conventional to protect against moisture, chemicals, insects and extreme temperatures.

FR-4 Material

The property of FR-4 material is flame-resistant and excelled in retaining its high mechanical values and electrical insulating qualities in both dry and humid conditions.



Compact Design

The design is smaller and takes less space than the conventional. It minimizes its influences to heat exchange efficiency of the condenser, and gives larger room to other components.

Smart Power Module

Built-in high definition temperature sensor controls the working efficiency of the compressor to achieve superior cooling and heating performance.

BENEFIT



More Stable

The PCB works stably between 130V-264V, It can start at the minimum of 130V. It enables air conditioner to provide consistent cooling in harsh environment.

More Durable

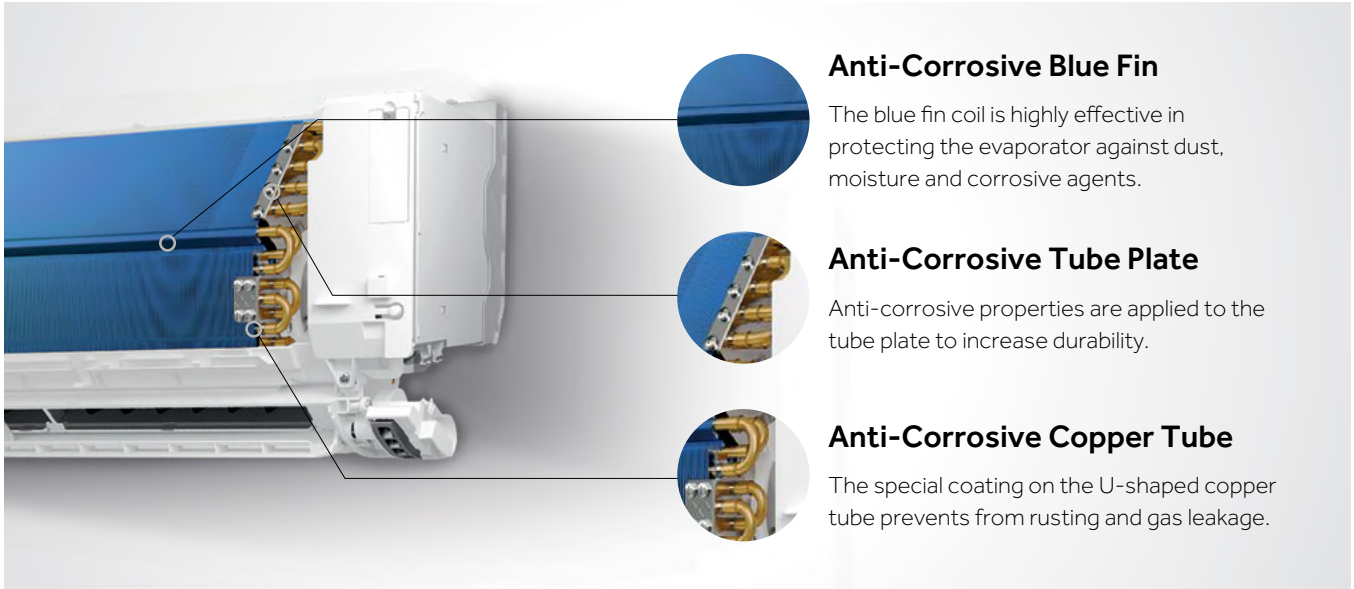
Special design and better conformal coating protect its components against various elements that reduce its lifespan.

ANTI-CORROSION



Protects the air conditioner from possible damaging caused by harsh environment in costal regions where the air is high in humidity, salt, chemicals and acid, to enhance the reliability and air conditioning performance.

TECHNOLOGY



Anti-Corrosive Blue Fin

The blue fin coil is highly effective in protecting the evaporator against dust, moisture and corrosive agents.

Anti-Corrosive Tube Plate

Anti-corrosive properties are applied to the tube plate to increase durability.

Anti-Corrosive Copper Tube

The special coating on the U-shaped copper tube prevents from rusting and gas leakage.

BENEFIT



More Durable

The anti-corrosive design increases the durability of the AC, and saves our money from sending for service technicians.

More Reliable

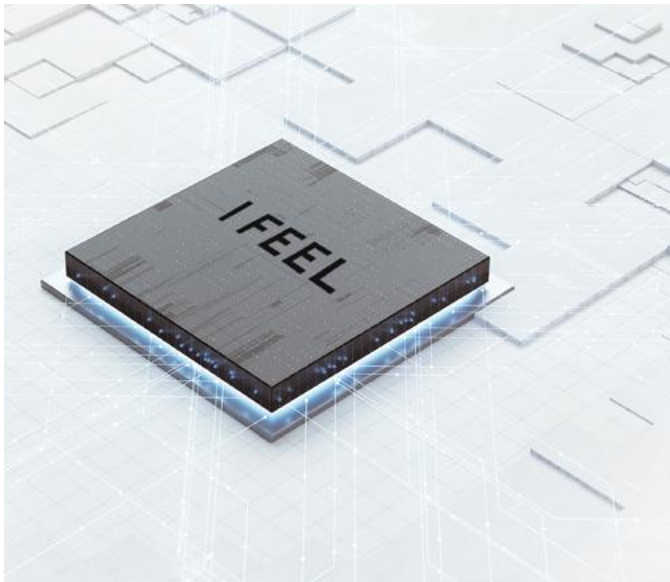
The anti-corrosive design prevents the copper tube damaging and gas leakage, to ensure the best air conditioning performance.

I FEEL



Detects the temperature around you with the remote controller no matter where you are in the room. So the air conditioner will optimise its operation based on the information to provide better air conditioning experience.

TECHNOLOGY



The performance of air conditioner may vary in different working conditions. If the room temperature is higher/lower than expected, you will feel uncomfortable. I FEEL is the least innovation in Haier's design to bring you total comfort.

Built-in Temperature Sensor

With the high definition temperature sensor built inside, the remote controller of the air conditioner can precisely monitor the temperature around the room.

Easy Control

With a simple click on the I FEEL button on the remote controller, the air conditioner receives real-time temperature data and optimise working conditions to match the desired temperature set by users.

BENEFIT





Comfortable Experience

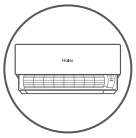
The function optimises the working conditions of the air conditioner to deliver airflow at the best temperature that you need.



ULTIMATE FIT

Easy installation allows the installer to work more efficiently and save time during the peak season. Haier air conditioning systems are easy to install thanks to the various optimised components. The optimised wall mounting plate provides detailed information for quick installation. At the same time, it facilitates disassembly and maintenance of the air conditioner by providing easy access to the fan motor and circuit board.


Easy Installation

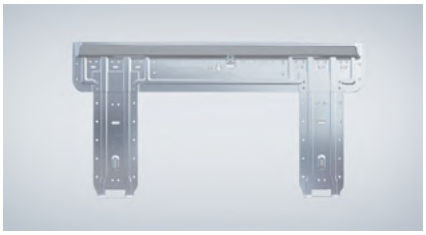

Easy Disassembly

EASY INSTALLATION



TECHNOLOGY

Positioning specifications



Install the mounting plate and fix the air conditioner at the appropriate height.

Easy clip (larger tubing space)



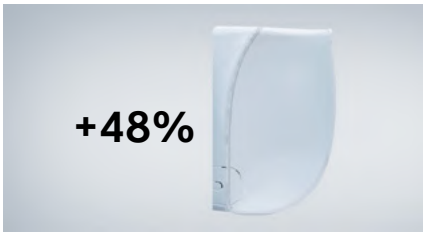
Facilitates installation with a larger workspace.

Easily accessible control panel



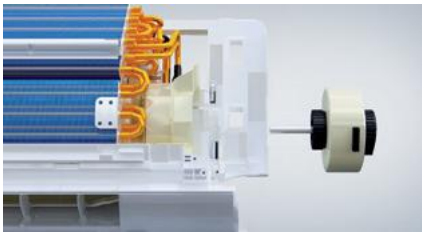
Simplified disassembly and maintenance without the need to dismantle the housing.

More spacing for pipes



Reduces installation time by increasing operating space to easily access the piping and electrical connections area.

Easily accessible fan motor



Simplifies disassembly and maintenance without the need to remove the evaporator.

Removable bottom panel

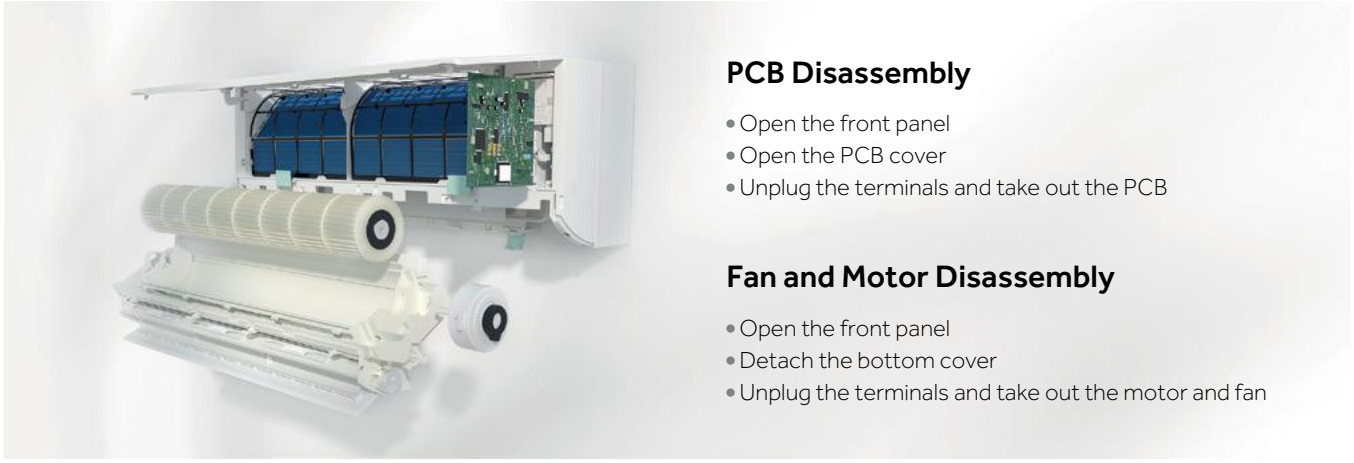


Allows the installer to connect pipes and cables without the aid of a screwdriver.

EASY-TO-DISASSEMBLE



TECHNOLOGY



PCB Disassembly

- Open the front panel
- Open the PCB cover
- Unplug the terminals and take out the PCB

Fan and Motor Disassembly

- Open the front panel
- Detach the bottom cover
- Unplug the terminals and take out the motor and fan

BENEFIT



80% faster PCB disassembly



90% faster motor disassembly



95% faster fan disassembly

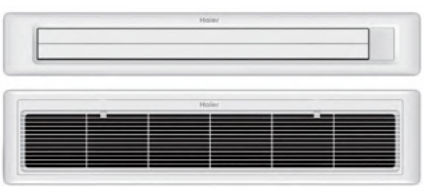
CONTROL SYSTEMS

REMOTE CONTROLLERS						
● Standard ○ Optional ■ Panel						
SERIES	YR-HE	YR-HE2	YR-HRS01 WHILE STOCKS LAST	YR-HQS01	YR-HQ	HQ-HJ
PEARL R290	●	-	-	-	-	-
JADE SUPERMATCH	-	-	-	-	-	●
EXPERT	-	-	-	-	-	●
FLEXIS PLUS	-	-	-	-	-	●
PEARL PREMIUM	-	●	-	-	-	-
REVIVE PLUS	-	●	-	-	-	-
EXPERT NORDIC	-	-	-	-	-	●
PEARL NORDIC	-	●	-	-	-	-
CONSOLE	-	-	○	●	-	-
1-WAY CASSETTE	-	-	○	○	-	-
CASSETTE 620	-	-	○	○	-	-
CASSETTE ROUND FLOW	-	-	○	○	-	-
CEILING FLOOR	-	-	○	○	-	-
SLIM DUCT LOW PRESSURE	-	-	■	■	-	-
DUCTED MEDIUM PRESSURE	-	-	○ HA-SB101DB module	○ HA-SB101DB module	-	-
DUCTED HIGH PRESSURE	-	-	○ HA-SB101DB module	○ HA-SB101DB module	-	-
ALL COMFORT TOWER / TOWER	-	-	-	-	●	-
CABINET	-	-	○	○	-	-

■ ***WITHOUT PANEL requires HA-SB101DB module**

THE PANEL KIT (OPTIONAL) INCLUDES:
Air supply grill equipped with vertical and horizontal fins motorised 3D effect - receiver - display

Air intake grill equipped with filter





HA-SB101DB module

IU	PANEL (OPTIONAL)	FEATURES
AD25 - AD35	**P1B-890IA/D**	With display including receiver
AD50 - AD71	**P1B-1210IA/D**	With display including receiver

The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.

WIRED CONTROLLERS					CABLE CONNECTOR
● Standard ○ Optional					 Connector cable for group connections
SERIES	HW-BA101ABT	HW-BA116ABK	HW-SA201ABK	YR-E16B	0010452854
PEARL R290	● (+ WK-B interface)	● (+ WK-B interface)	-	● (+ WK-B interface)	●
JADE SUPERMATCH	● (+ WK-B interface)	● (+ WK-B interface)	-	● (+ WK-B interface)	●
EXPERT	● (+ WK-B interface)	● (+ WK-B interface)	-	● (+ WK-B interface)	●
FLEXIS PLUS	● (+ WK-B interface)	● (+ WK-B interface)	-	● (+ WK-B interface)	●
PEARL PREMIUM	● (+ WK-B interface)	● (+ WK-B interface)	-	● (+ WK-B interface)	●
REVIVE PLUS	● (+ WK-B interface)	● (+ WK-B interface)	-	● (+ WK-B interface)	●
EXPERT NORDIC	● (+ WK-B interface)	● (+ WK-B interface)	-	● (+ WK-B interface)	●
PEARL NORDIC	● (+ WK-B interface)	● (+ WK-B interface)	-	● (+ WK-B interface)	●
CONSOLE	●	●	●	●	●
1-WAY CASSETTE	●	●	●	●	●
CASSETTE 620	●	●	●	●	●
CASSETTE ROUND FLOW	-	-	●	●	●
CEILING FLOOR	●	●	●	●	●
SLIM DUCT LOW PRESSURE	●	●	●	●	●
DUCTED MEDIUM PRESSURE	●	●	●	●	●
DUCTED HIGH PRESSURE	●	●	●	●	●
ALL COMFORT TOWER / TOWER	-	-	-	-	-

CENTRAL CONTROLLERS			
● Standard ○ Optional			
SERIES	HC-SA164DBT	**Wi-Fi Accessory** HIW164DBI	YCZ-A004
MULTI 1:2	● requires YCJ-A002 for each IU		● requires YCJ-A002 for each IU
MULTI 1:3	● requires 2503320A2		● requires 2503320A2
MULTI 1:4	● requires 2503320A2		● requires 2503320A2
MULTI 1:5	● requires 2503320A2		● requires 2503320A2
MONO R32	● requires YCJ-A002 for each IU		● requires YCJ-A002 for each IU
MONO R410A	● requires YCJ-A002 for each IU		● requires YCJ-A002 for each IU
MAXISPLIT	●		●


WK-B


YCJ-A002

Interfaces required for connection to wired or centralised control (see table above).


*


*

2503320A2 Unit

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MONOSPLIT

ROUND FLOW CASSETTE



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ROUND FLOW CASSETTE

360-DEGREE FLOW

Thanks to an 8 way flow of air, it is possible to ensure a 360-degree airflow without any blind spots.

NEW DESIGN +23% AIRFLOW

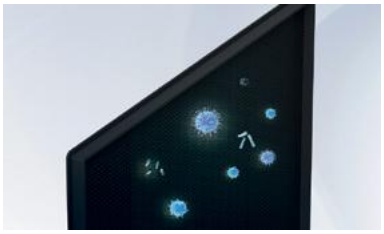
The increased surface area of the new grill ensures a greater distribution of air (+23%) compared to traditional models.



HEALTHY FILTER

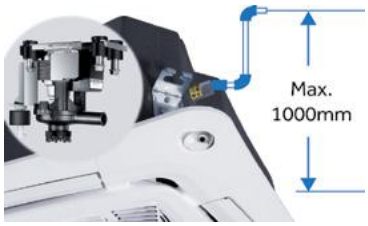
Haier antibacterial filter has added silver ions and antibacterial organics to kill Escherichia coli & Staphylococcus aureus effectively, with long lasting effects.

Panel with antibacterial filter is PB-950KB(H) (Optional).



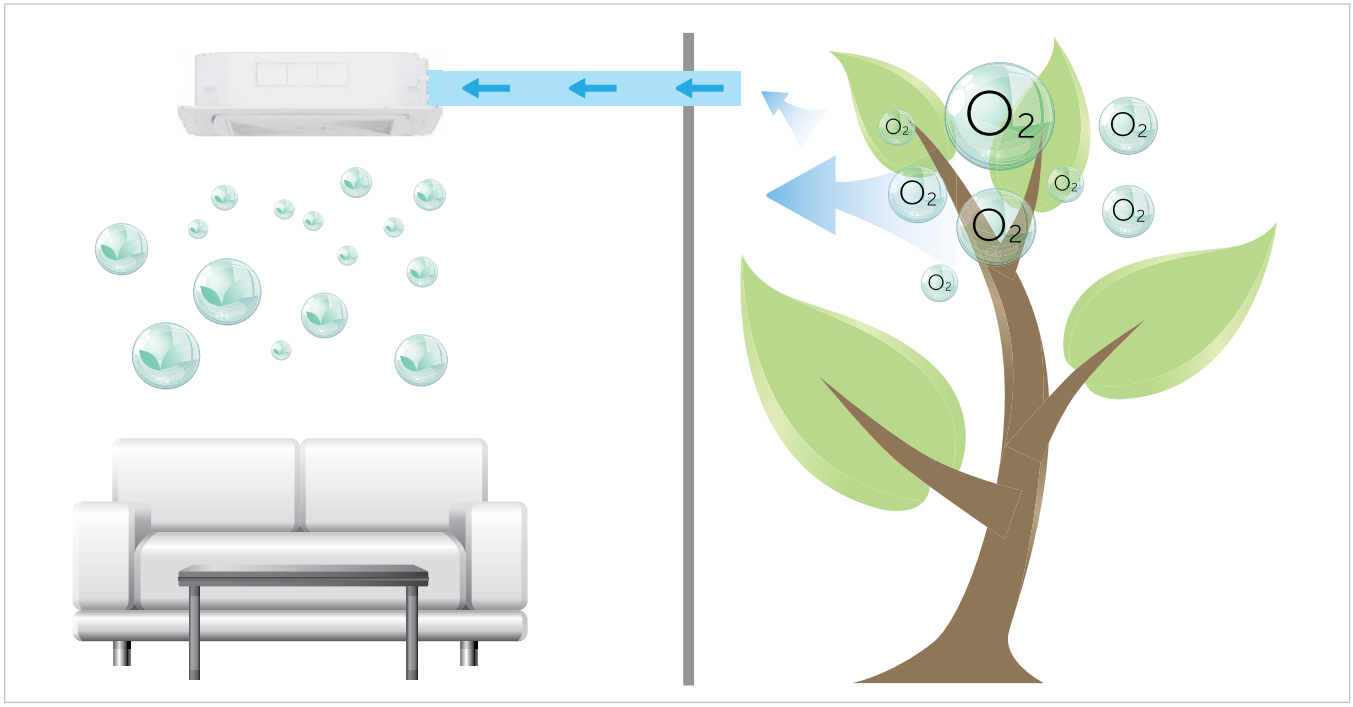
CONDENSATE DRAIN

The Cassette units include the condensation drain pump as standard, which guarantees a maximum prevalence of 1000 mm measured from the base of the machine.
There is the possibility of performing condensate drain by gravity (reversible on both sides).



FRESH AIR

Air exchange allows introduction of clean air into the ambient.



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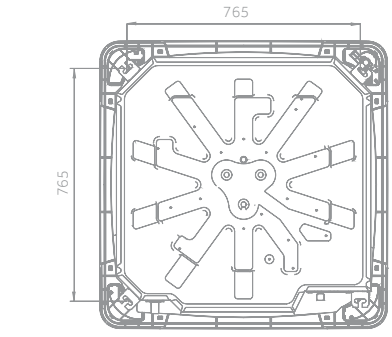
ROUND FLOW CASSETTE

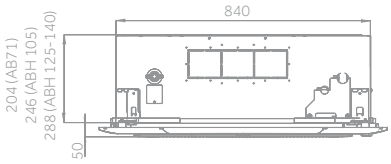


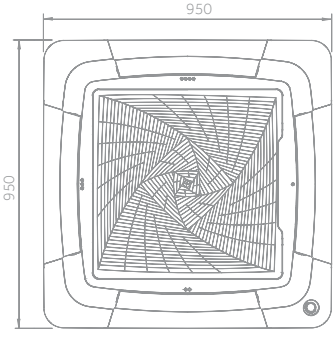




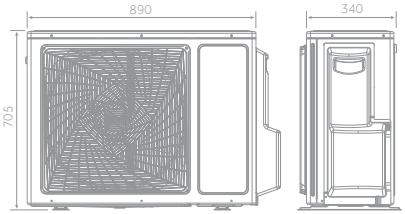
AB71 - ABH105 - ABH125



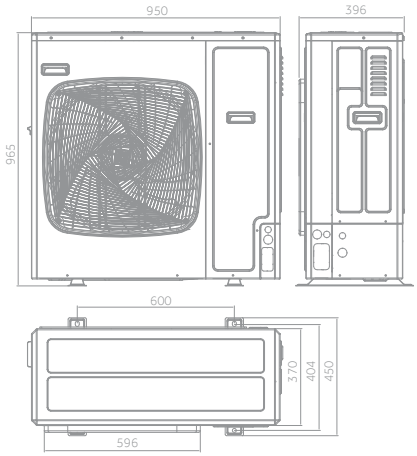




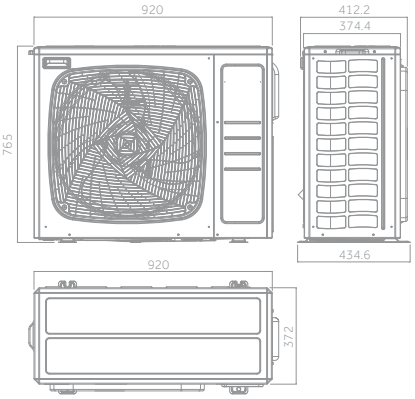
1U71



1U125



1U105





7,1 kW



10,5 kW



12,5 kW

The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.

ROUND FLOW CASSETTE

Haier

7,1 kW

9,2 kW

12,3 kW

Please see pages 40 & 41
For Controller Options

A+ / A







Unit R32 compatible R410A



Silence


8 Way Independent


Fresh Air



Integrated Wi-Fi Control



UVC Sterilisation



- Low noise level
- 'Fresh air' knockout is incorporated in the chassis to allow fresh air introduction of up to 20% of nominal unit air flow without compromising the cooling capacity. More than 20% of the air conditioner's thermal cooling capacity is penalise.
- Integrated Wi-Fi control
- UVC Sterilisation

Indoor Unit	Model		AB71S2SG1FA(H)	ABH105H1ERG(H)	ABH105H1ERG(H)	ABH125K1ERG(H)	ABH125K1ERG(H)
Outdoor Unit	Model		1U71S2ST1FA	1U105S2SS2FA	1U105S2SS1FB	1U125S2SN2FA	1U125S2SN2FB
Performance data							
Output power - COOLING	nom (min-max)	kW	7,10 (2,00-7,30)	9,20 (2,50-10,00)	9,20 (2,50-10,00)	12,30 (3,00-13,00)	12,40 (3,00-13,00)
Output power - HEATING	nom (min-max)	kW	7,90 (2,50-8,00)	10,10 (3,00-10,50)	10,50 (3,00-11,00)	12,70 (3,50-13,50)	12,80 (3,50-13,50)
Absorbed power – COOLING	nom (min-max)	kW	2,00 (0,50-2,60)	3,12 (0,50-4,00)	3,25 (0,50-4,00)	4,84 (1,00-6,00)	4,81 (1,00-6,00)
Absorbed power – HEATING	nom (min-max)	kW	2,11 (0,50-2,60)	2,91 (0,50-4,00)	3,10 (0,50-4,00)	4,44 (1,00-6,00)	4,41 (1,00-6,00)
Energy class	EER	W/W	3,55	3,00	3,00	2,54	2,58
	COP	W/W	3,75	3,50	3,50	2,86	2,93
COOLING Pdesign	35 °C	kW	7,10	9,20	9,20	12,30	12,40
HEATING Pdesign	(-10 °C)	kW	5,00	7,00	6,00	8,30	8,30
Energy class	SEER		6,85 (A++)	5,90 (A+)	5,90 (A+)	5,68 (A+)	5,71 (A+)
	SCOP		4,23 (A+)	3,80 (A)	3,91 (A)	3,93 (A)	3,96 (A)
Annual Energy Consumption - COOLING		kWh/a	406	555	555	740	736
Annual Energy Consumption - HEATING		kWh/a	1831	2780	2136	3032	3003
Indoor Unit							
Power supply		Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Treated air volume	(H/M/L/Q)	m3/h	1260/1070/820/680	1680/1530/1320/1190	1680/1530/1320/1190	1950/1600/1440/1200	1950/1600/1440/1200
High sound power		dB	57	62	63	64	64
Sound pressure		dB(A)	42/40/38/35	45/42/38/34	45/42/38/34	47/44/38/34	47/44/38/34
Net dimensions	WxDxH	mm	840x840x204	840x840x246	840x840x246	840x840x288	840x840x288
Packaging dimensions	WxDxH	mm	990x990x310	990x990x330	990x990x330	990x990x380	990x990x380
Net/gross weight		kg	27,0/32,0	31,0/36,0	31,0/36,0	32,0/38,0	32,0/38,0
Panel	Model		PB-950KB(H)	PB-950KB(H)	PB-950KB(H)	PB-950KB(H)	PB-950KB(H)
Panel Net dimensions	WxDxH	mm	950x950x50	950x950x50	950x950x50	950x950x50	950x950x50
Panel Packaging dimensions	WxDxH	mm	1013x1025x123	1013x1025x123	1013x1025x123	1013x1025x123	1013x1025x123
Panel Net/gross weight			6,5/9,5	6,5/9,5	6,5/9,5	6,5/9,5	6,5/9,5
Outdoor Unit							
Power supply		Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	3/380~415/50/60	1 /220~240/ 50/60	3 /380~415/ 50/60
Power cable		N x mm2	3 x 4,0	3 x 4,0	5 x 4,0	3 x 6,0	5 x 4,0
Interconnection cable		N x mm2	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5
Sound power	H	dB	68	66	68	72	72
Sound pressure	H	dB(A)	54	53	54	58	58
Running current cooling/heating	Max	A	13,1	16,5	6,8	26,0	10,0
Starting current cooling/heating	Max	A	2,0	3,0	1,0	4,0	2,0
Net dimensions	WxDxH	mm	890x340x705	920x372x765	920x372x765	950x370x965	950x370x965
Packaging dimensions	WxDxH	mm	1046x460x780	1036x478x820	1085x485x830	1050x485x1130	1050x485x1130
Net/gross weight		kg	44,0/48,0	60,0/65,0	61,0/66,0	84,0/89,0	85,0/90,0
Compressor type			Twin rotary inverter	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter
Installation data							
Refrigerant			R32	R32	R32	R32	R32
Liquid pipe	Ø	mm (inch)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
Gas pipe	Ø	mm (inch)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)
Standard pipe length without refrigerant charge		m	10	30	30	30	30
Maximum pipe length		m	50	50	50	50	50
Maximum IU - OU elevation		m	30	30	30	30	30
Refrigerant charge in the factory		kg	1,23	1,70	1,70	2,30	2,30
Refrigerant charge in the factory		TCO2eq	0,83	1,15	1,15	1,55	1,55
Additional ref, charge over std length		g/m	45	45	45	45	45
Outdoor operating limits - COOLING	min-max	°C	-20~46				
Outdoor operating limits - HEATING	min-max	°C	-20~24				

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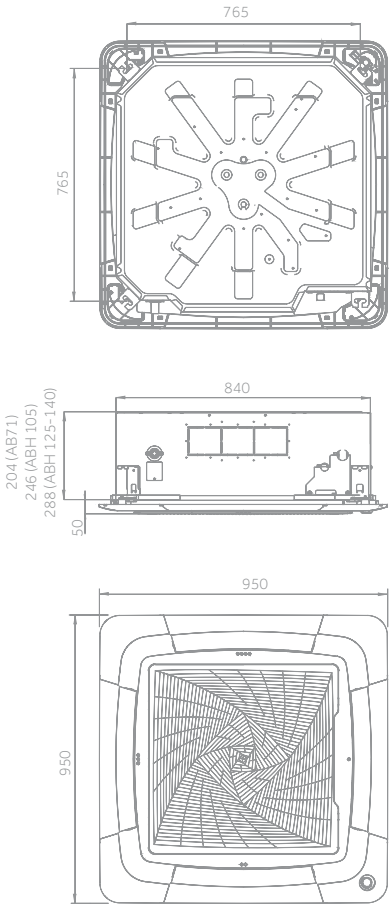
ROUND FLOW CASSETTE



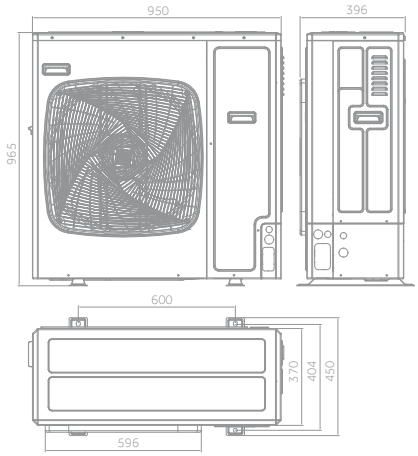




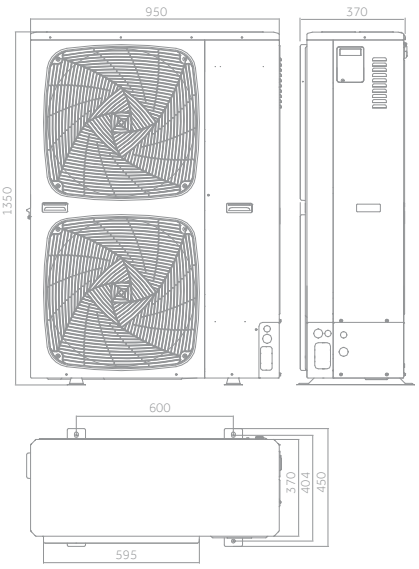
ABH140 - ABH160



1U140



1U140 - 1U160





14,0 kW - 16,0 kW

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ROUND FLOW CASSETTE

Haier

13,4 kW

15,0 kW

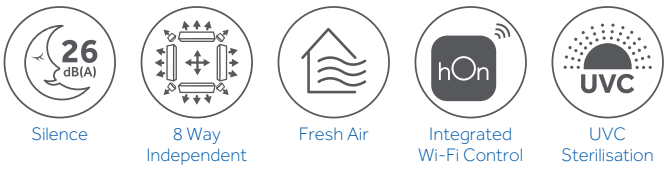
Please see pages 40 & 41
For Controller Options

Unit R32 compatible R410A









Silence | 8 Way Independent | Fresh Air | Integrated Wi-Fi Control | UVC Sterilisation

- Low noise level
- 'Fresh air' knockout is incorporated in the chassis to allow fresh air introduction of up to 20% of nominal unit air flow without compromising the cooling capacity. More than 20% of the air conditioner's thermal cooling capacity is penalise
- Integrated Wi-Fi control
- UVC Sterilisation

Indoor Unit	Model		ABH140K1ERG(H)	ABH140K1ERG(H)	ABH140K1ERG(H)	ABH140K1ERG(H)	ABH160K1ERG(H)
Outdoor Unit	Model		1U140S2SN1FA	1U140S2SN1FB	1U140S2SP2FA	1U140S2SP2FB	1U160S2SP1FB
Performance data							
Output power - COOLING	nom (min-max)	kW	13,40 (3,50-14,00)	13,40 (3,50-14,00)	13,60 (4,00-15,00)	13,60 (4,00-15,00)	15,00 (4,50-16,00)
Output power - HEATING	nom (min-max)	kW	15,00 (4,00-15,50)	15,00 (4,00-15,50)	15,00 (4,50-16,00)	15,00 (4,50-16,00)	16,00 (5,00-17,00)
Absorbed power – COOLING	nom (min-max)	kW	5,51 (1,00-6,50)	5,28 (1,00-6,50)	4,86 (1,00-6,00)	4,98 (1,00-6,00)	5,03 (1,00-6,50)
Absorbed power – HEATING	nom (min-max)	kW	5,77 (1,00-6,50)	5,70 (1,00-6,50)	4,75 (1,00-6,00)	4,67 (1,00-6,00)	5,26 (1,00-6,50)
Energy class	EER	W/W	2,43	2,54	2,80	2,73	2,98
	COP	W/W	2,60	2,63	3,10	3,06	3,04
COOLING Pdesign	35 °C	kW	13,40	13,40	13,60	13,60	15,00
HEATING Pdesign	(-10 °C)	kW	8,50	8,50	10	10	11,00
Energy class	SEER		5,60 (A+)	5,62 (A+)	5,70 (A+)	5,70 (A+)	5,96 (A+)
	SCOP		3,93 (A)	3,96 (A)	3,94 (A)	3,99 (A)	3,99 (A)
Annual Energy Consumption - COOLING		kWh/a	838	834	800	782	880
Annual Energy Consumption - HEATING		kWh/a	3032	3003	3768	3748	3859
Indoor Unit							
Power supply		Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Treated air volume	(H/M/L/Q)	m3/h	1950/1600/1440/1200	1950/1600/1440/1200	1950/1600/1440/1200	1950/1600/1440/1200	2050/16001440/1220
High sound power		dB	64	64	64	64	65
Sound pressure		dB(A)	47/44/38/34	47/44/38/34	47/44/38/34	47/44/38/34	48/44/38/34
Net dimensions	WxDxH	mm	840x840x288	840x840x288	840x840x288	840x840x288	840x840x288
Packaging dimensions	WxDxH	mm	990x990x380	990x990x380	990x990x380	990x990x380	990x990x380
Net/gross weight		kg	32,0/38,0	32,0/38,0	32,0/38,0	32,0/38,0	32,0/38,0
Panel	Model		PB-950KB(H)	PB-950KB(H)	PB-950KB(H)	PB-950KB(H)	PB-950KB(H)
Panel Net dimensions			950x950x50	950x950x50	950x950x50	950x950x50	950x950x50
Panel Packaging dimensions			1013x1025x123	1013x1025x123	1013x1025x123	1013x1025x123	1013x1025x123
Panel Net/gross weight			6,5/9,5	6,5/9,5	6,5/9,5	6,5/9,5	6,5/9,5
Outdoor Unit							
Power supply		Ph/V/Hz	1 /220~240/ 50/60	3 /380~415/ 50/60	1/220~240/50/60	3/380~415/50/60	3/380~415/50/60
Power cable		N x mm2	3 x 6,0	5 x 4,0	3 x 6,0	5 x 4,0	5 x 4,0
Interconnection cable		N x mm2	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5
Sound power	H	dB	72	72	70	70	72
Sound pressure	H	dB(A)	58	58	53	53	58
Running current cooling/heating	Max	A	30,0	10,0	32,0	10,0	10,0
Starting current cooling/heating	Max	A	5,0	2,0	6,0	2,0	2,0
Net dimensions	WxDxH	mm	950x370x965	950x370x965	950x370x1350	950x370x1350	950x370x1350
Packaging dimensions	WxDxH	mm	1050x485x1130	1050x485x1130	1050x485x1500	1050x485x1500	1050x485x1500
Net/gross weight		kg	84,0/89,0	85,0/90,0	105,0/118,0	101,0/116,0	101,0/116,0
Compressor type			Twin rotary inverter	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter
Installation data							
Refrigerant			R32	R32	R32	R32	R32
Liquid pipe	Ø	mm (inch)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
Gas pipe	Ø	mm (inch)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	19,05 (3/4)
Standard pipe length without refrigerant charge		m	30	30	30	30	30
Maximum pipe length		m	70	70	70	70	70
Maximum IU - OU elevation		m	30	30	30	30	30
Refrigerant charge in the factory		kg	2,30	2,30	2,90	3,50	3,50
Refrigerant charge in the factory		TCO2eq	1,55	1,55	1,96	2,36	2,36
Additional ref, charge over std length		g/m	45	45	45	45	60
Outdoor operating limits - COOLING	min-max	°C	-20~46				
Outdoor operating limits - HEATING	min-max	°C	-20~24				

The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.